TABLE OF CONTENTS

- Acknowledgements ii
- Table of Contents iv
- List of Tables ix
- List of Figures xiv
- List of Appendices xvi

Heading needed for items in brackets. Show subordination of items under headings 1, 3, and 4

CHAPTER		PAGE
I :	INTRODUCTION	1
1	- Education in Modern Times	1
	- Technology in Education	2
	- Programmed Learning Material (PLM) ..	5
	- Programmed Learning in India ..	7
2	- The Present Investigation - Its Focus..	8
3	- Development of Home Science Education in India	8
	- Need and Significance of Home Science Education	9
	- Teaching of Home Science .. 3 2 ..	12
4	- Significance for Use of PLM in Home	
4.1	- Science Education	13
4	- Adolescent and Home Science ..	15
	- Development of PLM in Home Science for Adolescent Girls	16
5	- Delimiting the Scope of Study ..	19
6	- The Broad Aims of the Study ..	21
7	- Research Methodology	22
8	- Development and Testing of Linear Form of Programme in Home Science ..	22
9	- Procedure for Measurement and Analysis	24
10	- The Scheme of Chapterization ..	27
	- Conclusion	30
II :	REVIEW OF RELATED RESEARCHES	31
	- Introduction	31
	- Trends and Issues related to Programmed Learning in India	31
	- Programmed Learning in Home Economics..	34
	- Researches on Development and Validation of Programme	37

CHAPTER PAGE

- Researches on Programmed Learning Materials Vis-a-Vis the Conventional Methods of Teaching at School Level .. 41
- Researches on Programmed Learning Materials Vis-a-Vis Conventional Methods of Teaching at College Level .. 49
- Researches on Programmed Learning Materials for Different Types of Students .. 54
- Conclusion .. 58

III : PROCEDURE 60

- Introduction 60
- Population 61
- Sample 61
- Sampling Method - Purposive Method .. 64
- Categorization of the Variables .. 64
- Group Intelligence Test 65
- Overall Class Achievement 66
- Achievement in Home Science 66
- Extent of Preparation 67
- Adjustment to School 68
- Time taken in Studying the Content .. 69
- Socio-Economic Status (SES) .. 70
- The Items on the Test 71
- Hypothesis of the Study 72
- Coding and Analysis of Data 74
- Conclusion 75

IV : DEVELOPMENT AND VALIDATION OF PLM .. 76

- Introduction 76
- Development and Validation of PLM .. 78
- Selection of Topic 78
- Framming Assumptions 84
- Stating of Objectives 85
- Selecting a Model 91
- Arranging Content in Order 92
- Construction of Frames 94
- Use of Prompts in Construction of Frames 100
- Evaluation 101
- Conclusion 103

CHAPTER PAGE

V : FINDINGS AND INTERPRETATION 105

- Introduction 105
- Characteristics of the Sample 107
- Effect of Methods of Study on Variations in IRT and DRT Scores 111

PART I

- Effect of Intelligence and Methods of Study on Immediate and Delayed Retention Test Scores in General and on Those of Subjective and Objective Items in Particular .. 119
- Effect of Intelligence and Methods of Study on the IRT Scores .. 120
- Effect of Intelligence and Methods of Study on the DRT Scores 130
- General Conclusions 146

PART II

- Effect of Overall Class Achievement, Achievement in Home Science and Extent of Preparation to enter the Experimental Condition on the IRT and DRT Scores in General.. 155
- Conclusions 161
- Effect of Class Achievement and Methods of Study on DRT Scores 162
- Conclusions 166
- Effect of Achievement in Home Science and Methods of Study on IRT Scores 169
- Conclusions 172
- Effect of Achievement in Home Science and Methods of Study on DRT Scores 173
- Conclusions 177
- Effect of Preparation and Methods of Study on IRT Scores 180
- Conclusions 184
- Effect of Preparation and Methods of Study on DRT Scores 184
- Conclusions 187

PART III

- Effect of Socio-Economic Status and Methods of Study on the IRT and DRT Scores in .. General 190
- Effect of SES and Methods of Study in the IRT Scores .. 191

CHAPTER PAGE

- Conclusions .. 194
- Effect of SES and Methods of Study on
- the DRT Scores .. 194
- Conclusions
- Effect of Adjustment to School and Methods of Study .. 200
- Effect of Adjustment to School and Methods of Study on IRT Scores .. 201
- Conclusions .. 204
- Effect of Adjustment to School and Methods of Study on DRT Scores .. 205
- Conclusions .. 207

PART IV

- Time taken as Factor Affecting Variations in the Achievement Scores on IRT and DRT in General as well as Those on Subjective and Objective Items as Particular .. 210
- Effect of Time Taken and Methods of Study on the Variations of Scores on IRT .. 211
- Conclusions .. 214
- Effect of Time Taken and Methods of Study on Subjective Items of IRT .. 214
- Conclusions .. 217
- Effect of Time Taken and Methods of Study on Objective Items of IRT .. 218
- Conclusions .. 221
- Effect of Time Taken and Methods of Study on Variations of DRT Scores .. 222
- Conclusions .. 224
- Effect of Time Taken and Methods of Study on the Subjective Items of DRT .. 224
- Conclusions 227
- Effect of Time Taken and Methods of Study on Objective Items of DRT 227
- Conclusions 234
- Overall Conclusions 234

VI : SUMMARY, CONCLUSIONS AND RECOMMENDATIONS .. 240

- Introduction 240
- Reasons for Study 241
- Objectives 243
- Hypotheses 244
- Research Design 245
- Variables under Study 245
- Methods and Analysis of Data 246
- The Major Findings 247

CHAPTER PAGE

- Characteristics 247
- Suitability of PLM Independently .. 247
- Variations in Immediate Retention Test Scores due to Personality Variables .. 248
- Variations in Delayed Retention Test Scores due to Personality Variables .. 249
- Variations in Scores on Subjective Items of IRT and DRT due to Intelligence and Time Taken .. 249
- Variations in Scores on Objective Items of IRT and DRT due to Intelligence and Time Taken .. 250
- Suitability of PLM for Self Study as well as An Aid for Immediate Retention in Relation to the Personality Variables.. 251
- Suitability of PLM for Self Study as well as an Aid for Delayed Retention in Relation to Selected Variables .. 254
- Suitability of PLM for Self Study as well as an Aid for Scoring on Subjective and Objective Items of IRT as well as DRT according to Intelligence and Time Taken ..257
- Limitations of the Present Investigation ..259
- Recommendations ..263
- Overall Conclusion ..264

- BIBLIOGRAPHY ..266

- APPENDICES (A to F) .. 280