CHAPTER – 3
RESEARCH DESIGN

3.1 INTRODUCTION

Education is the process by which an individual grows, develops and becomes increasing well adjusted in a changing society. Education provides experiences that enable a person from desirable habits, broaden mental vision, deepen understanding of her study in society and acquire skills to meet and solve problems encountered every day. Mastery of material environment in itself cannot bring happiness. Knowledge is only an instrument to achieve ideals. One may have knowledge, but not judgment; one may have material power, but not spiritual vision; one may have physical strength, but not capacity. Science must help us to acquire moral qualities, discipline dedication and devotion to truth. The mind of an educated person should be cultured and fearless.

3.2 POPULATION AND SAMPLE

The students studying in undergraduate colleges of Jamnagar, Morbi Rajkot, and Surendranagar in the year 2009-10 were population for the study. The information regarding name of the college, type and number of students is given in table 3.1
<table>
<thead>
<tr>
<th>Sr. No.</th>
<th>Name of college</th>
<th>Faculty</th>
<th>girls</th>
<th>Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>Smt. S.C.U. Shah Home science and Arts &amp; Commerce Mahila College - Wadwan city.</td>
<td>Arts</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Commerce</td>
<td>35</td>
<td>35</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Home Science</td>
<td>33</td>
<td>33</td>
</tr>
<tr>
<td>2</td>
<td>Smt. J. A. Patel Mahila arts, Commerce, and Home science College-Morbi</td>
<td>Arts</td>
<td>53</td>
<td>53</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Commerce</td>
<td>30</td>
<td>30</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Home Science</td>
<td>33</td>
<td>33</td>
</tr>
<tr>
<td>3</td>
<td>Om Vindhya Vasini Advance Computer and commerce college-MORBI</td>
<td>Commerce</td>
<td>06</td>
<td>06</td>
</tr>
<tr>
<td>4</td>
<td>Shri P.G. Patel Commerce College, MORBI.</td>
<td>Commerce</td>
<td>14</td>
<td>14</td>
</tr>
<tr>
<td>5</td>
<td>Sadguru Dev Ranchhodhasji Bapu Mahila Home Science &amp; Late M.J. K. Mahila Commerce College. RAJKOT</td>
<td>Home Science</td>
<td>34</td>
<td>34</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Commerce</td>
<td>18</td>
<td>18</td>
</tr>
<tr>
<td>6</td>
<td>M.V.M. Science &amp; Home Science College, RAJKOT-360 001.</td>
<td>Home Science</td>
<td>71</td>
<td>71</td>
</tr>
<tr>
<td>7</td>
<td>Smt. R.R. Patel Mahila Arts &amp; Commerce College, RAJKOT.</td>
<td>Arts</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Commerce</td>
<td>32</td>
<td>32</td>
</tr>
<tr>
<td>8</td>
<td>Shri A.K. Doshi Mahila Arts, Commerce &amp; Home Science College. JAMNAGAR.</td>
<td>Arts</td>
<td>47</td>
<td>47</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Commerce</td>
<td>09</td>
<td>09</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Home Science</td>
<td>29</td>
<td>29</td>
</tr>
<tr>
<td>9</td>
<td>Shri G.H. Gosrani Commerce &amp; D.D. Nagda B.B.A. College, JAMNAGAR.</td>
<td>Commerce</td>
<td>41</td>
<td>41</td>
</tr>
<tr>
<td></td>
<td></td>
<td>Total</td>
<td>585</td>
<td>585</td>
</tr>
</tbody>
</table>
1.3 DEVELOPING TOOLS

The researcher wanted to find out the role of education on empowerment. In this study the role of education on women empowerment was checked on the respondents from arts, commerce & home science faculty & the variables like area of living & family type was also checked.

3.31 Covering letter

This letter was to orient the respondents to the research. It specified the purpose and pattern of research. It also assured them that the collected data will be used for educational purpose only. The complete letter was in simple Gujarati language followed by signature of researcher herself.

3.32 Background information

This section consulted of basic details about the respondent. It had the following aspects:
3.33 Subject wise sections.

The questionnaire was then presented in women empowerment section of five political, social, economic, cultural and psychological. The questions in which a single answer could be given were accompanied by a five box for Totally Agreed, Partially Agreed, Neutral, Partially disagreed and Totally disagreed. This pattern was uniformly followed for all five sections. Care was taken to see that language used was simple, scientific and easy to understand. Special care was taken to see that no items were repeated.

### 3.4 PILOT STUDY

For the purpose of assuring the correctness of the questionnaire a pilot study was conducted a sample of

* 5 - Girls’ students of arts faculty – 11th standard
* 5 - Girls’ students of commerce faculty- 11th standard
* 5 - Girls’ students of Home science faculty- 11th standard
* 5 - Girls’ students of arts faculty – 12th standard
* 5 - Girls’ students of commerce faculty- 12th standard
* 5 - Girls’ students of Home science faculty- 12th standard
* 5 - Girls’ students of arts faculty –first year
* 5 - Girls’ students of commerce faculty- first year
* 5 - Girls’ students of Home science faculty- first year
* 5 - Girls’ students of arts faculty – Second year
* 5 - Girls’ students of commerce faculty- Second year
* 5 - Girls’ students of Home science faculty- Second year
* 5 - Girls’ students of arts faculty – Third Year
* 5 - Girls’ students of commerce faculty- Third Year
* 5 - Girls’ students of Home science faculty- Third Year

**Total-75**

The researcher met each of this information of statement and got the questionnaire filled. The language used and space provided was found to be adequate. More changes were made as required. No major difficulties were faced while collecting the data for pilot study using the designed questionnaire.

### 3.5 VALIDATION OF TOOL

The researcher made few changes after pilot study in the tool then researcher got the tools validated from experts,
3.6 CATEGORIZATION OF VARIABLES

The researches had selected the following independent variables for the study.
1. Area
2. Types of family
3. Education

FIGURE - 3.2 Showing Categorization of variables
The independent Variables were further divided into categories for the purpose of statistical analysis of the data.

*Area
The selected under graduate students may belong to different types of Area thus, this variable was categorized as-

A. Urban
B. Rural

*Types of family:

The selected under graduate students may belong to different types of families thus, this variable was categorized as-

A. Joint family
B. Nuclear family

*Education

This under graduate student’s variable was categorized into three.

A. Arts
B. Commerce
C. Home Science.

3.7 COLLECTION OF DATA

The Information regarding the area of living & the type of family was collected. The variables were urban rural area, joint, nuclear family and home science, arts &commerce faculty.

3.8 DATA GATHERING INSTRUMENT

In this study role of education on women empowerment was checked on the respondents from arts, Commerce & Home science Faculty & the variables Like area of living & family type was also checked.

To study the role of education statement were self prepared by the researcher. The statements were divided into following categories. The changes in social, political, cultural, economic & psychological empowerment were checked.

There were 200 statements & The respondents had to choose one option out of five the statements have five option fully agreed, agreed, not sure, not agreed, not fully agreed.
3.9 PROCEDURE OF COLLECTION OF DATA

For collection of data, researcher contacted principal of the college discussed about the purpose of the study asked for co-operation & permission. After getting date & time researcher went to the college & collected data. First researcher told the students about the purpose of study & asked them to fill the statement gives them the statement form & took back after 2 days.

3.10 STATISTICAL ANALYSIS

In the study first overall marks of the students were checked. For urban, rural, joint nuclear family, Home Science, arts & Commerce faculty & then divided into different political, social, economic, cultural & psychological empowerment level of women. Statistical analysis was done using mean, standard deviation, standard error, significance test. & T-test. Calculation was done using both the level of significance.

In chapter 4 Statistical analysis & interpretation of the results are given.