

## **CHAPTER - III**

### **METHODOLOGY**

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#### **3.0 Introduction**

The present chapter contains the Research Design of the study. Research Methodology including Population and Sample, Tools and Techniques, Data Collection and Data Analysis Techniques employed have been presented in this chapter.

#### **3.1. Type of the Study**

Survey method has been employed for the present study.

#### **3.2. Population for the Study**

The population of this study is comprised of all the Secondary level Teacher Education institutions affiliated to/run by different universities of Gujarat state. All the Principals/ Heads of the Departments, Teacher Educators and Student-Teachers of the respective Institutions during the academic year 2012-13 constituted the population.

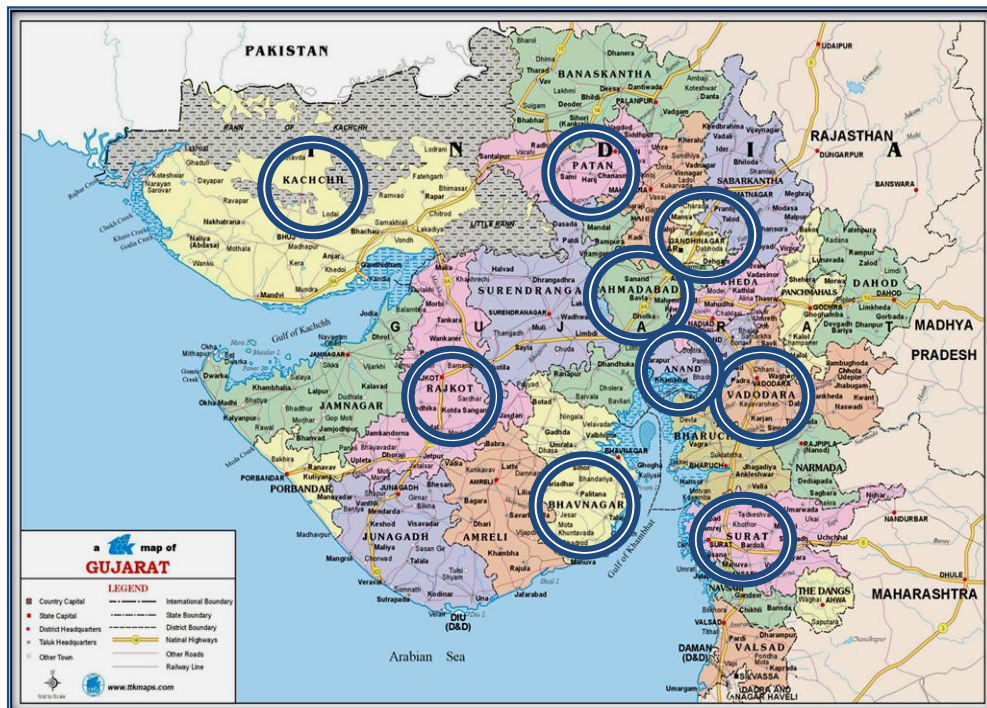
#### **3.3. Sample for the Study**

- a. The sample was representative of all the eleven Universities of Gujarat State. Stratified Proportionate Random Sampling was done and 60% of the Secondary Level Teacher Education Institutions from each stratum were selected randomly.
- b. A total 191 Secondary level Teacher Education Institutions constituted the final sample for the study.
- c. All the Principals/Heads of the Departments, Teacher Educators and Student-Teachers of the selected Secondary level Teacher Education Institutions constituted the sample for the study.
- d. All the Teacher Educators with teaching experiences of three years constituted the sample from the selected Secondary level Teacher Education Institutions. Further, 15% Students-Teachers were selected randomly for each of the selected practices.

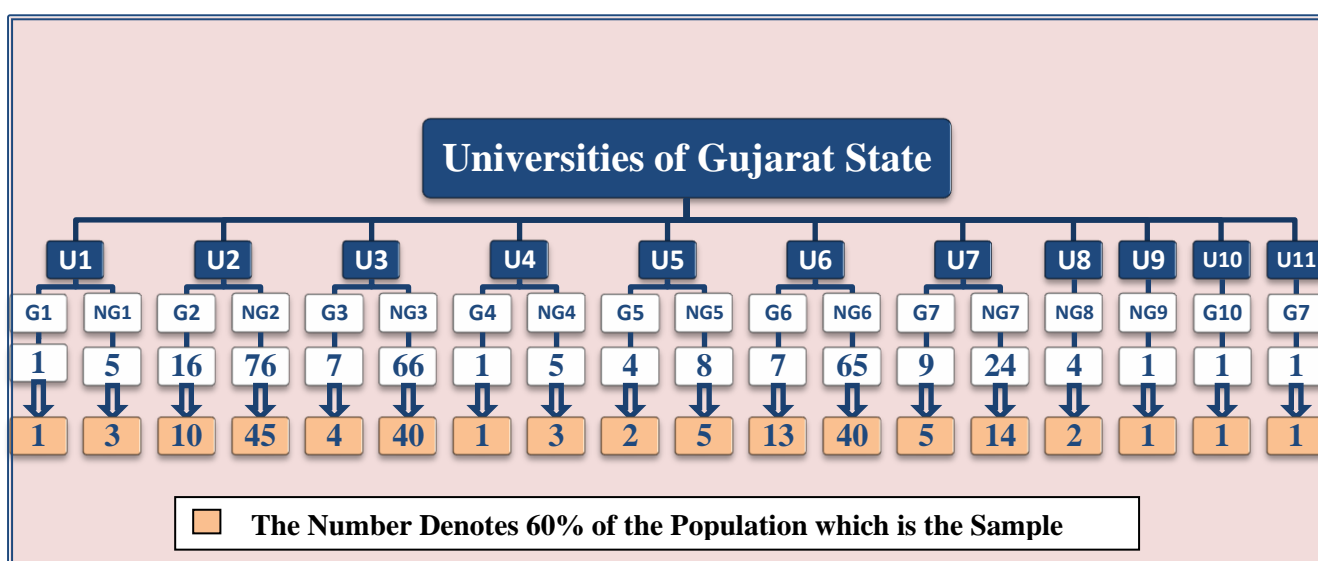
- e. Out of the 191 selected Teacher Education Institutions 42 did not provide data. So, finally 149 Institutions of Teacher Education constituted the sample for the present study.



Plate\_1 & 2: Map of India ↑ Map of Gujarat State ↓



**Figure\_2: Figure Showing Selected Sample Size**



[Total selected Teacher Education Institutions through Stratified Proportionate Random Sampling]

(G: Grant-in-aid, NG: Non grant-in-aid, UGS: Universities of Gujarat State)

**Table 3: Size of Population**

UGS and its Code		No. of Institution			
Code	Name of Universities	Government	Grant in Aid	Non-Grant in Aid	Total
U1	Maharaja Krushnakumarsinhji Bhavnagar University	-	01	05	06
U2	Gujarat University, Ahmedabad	01	15	76	92
U3	Hemchandracharya North Gujarat University, Patan	01	06	66	73
U4	K. Shyamji Krishna Verma Kutchh University, Bhuj	-	01	05	06
U5	S. P. University, Vallabh Vidhya Nagar	-	04	08	12
U6	Saurashtra University, Rajkot	-	07	65	72
U7	Veer Narmad South Gujarat University, Surat	02	07	24	33
U8	Kadi Sarva Vishwa Vidhyalaya, Gandhinagar	-	-	04	04
U9	Navrachana University, Vadodara	-	-	01	01
U10	Gujarat Vidyapeeth, Ahmedabad	-	01	-	01
U11	The M. S. University of Baroda, Vadodara	-	01	-	01
	<b>Total</b>	<b>04</b>	<b>43</b>	<b>254</b>	<b>301</b>
<b>Total Population Size = [ 301] Teacher Education Institutions</b>					

(Source: Data Gathered from all Universities latest Prospectus)

### **3.4. Tools & Techniques for Data Collection**

Questionnaires, Check list, Observation Schedule, Semi-Structured Interview Schedule were employed for data collection. All these tools were constructed by the Researcher and validated by the Experts.

#### **3.4.1. Questionnaire for Principals/Teacher Educators (Appendix\_I)**

Questionnaire was constructed by the researcher to study the status of innovative practices implemented by Teacher Educators and Principals.

The questionnaire constituted close-ended as well as open-ended questions based on Admission, Modes of Transaction of the Curriculum, Practice-Teaching, Internship, Guidance and feedback, Evaluation for award of grades, Practical Work, Co-Curricular Activities and adopted/adapted innovative practices.

The questionnaire was given to experts for validation and final copy of the questionnaire was made after incorporated the changes suggested by experts.

#### **3.4.2. Check List (Appendix\_II)**

A Check list was constructed by the researcher to study the status of innovative practices implemented by Teacher Educators and Principals. It contained items related to the Transaction of Curriculum, Practice-Teaching, Evaluation, Practical Work, and Co-Curricular Activities. It was validated by the experts.

#### **3.4.3. Questionnaire for Student-Teachers (Appendix\_III)**

A Questionnaire was constructed by the researcher to study the implemented Innovative Practices in Teacher Education Institutions of Gujarat State. The questionnaire constituted open-ended questions related to the orientation part, planning and implementation part, and evaluation part of Innovative Practices.

#### **3.4.4. Semi-Structured Interview (Appendix\_IV & V)**

Semi-structured Interview was conducted to collect the data from the Principals/Heads of the Education Departments and Teacher Educators of the selected Teacher Education Institutions regarding Innovative Practices in their institutions and the factors facilitating and impeding the innovations.

### **3.4.5. Observation**

Observation was done by the researcher to observe different aspects of selected innovative practices. The observation was done when the selected Innovative Practices were being presented / demonstrated and Practiced during workshop by the student-teachers. Observation was also done of the student-teachers while implementing the selected innovative practices during simulation.

### **3.4.6. Document Analysis (Appendix\_VI)**

For clarity in understanding the nature of innovative practices document analysis of the selected innovative practice was done. Lesson plans, Syllabi, Time-Tables and Photographs of the activities were included in this document analysis. A detailed list of all the documents analyzed has been provided in appendix.

### **3.5. Data Collection**

The data were collected phase wise:

**Phase - 1:** In the first phase of data collection the researcher collected data through questionnaires from the sampled Secondary Level Teacher Education Institutes to know the innovative practices prevailing therein.

**Phase - 2:** In the second phase the researcher identified innovative practices which were prevailing in the Teacher Education Institutions of the Gujarat State. This identification was done based on the data collected in phase 1. The researcher personally visited the identified Teacher Education Institutes and conducted interview with the Teacher Educators and Principals to know the details about innovative practices. Questionnaire was administered on student-teachers to find out their opinion regarding the particular selected innovative practices.

**Phase - 3:** On the basis of the data gathered in the second phase, various innovative practices were further studied in detail, through personal visits and observation.

### **3.6. Data Analysis Technique Employed**

All the data were analyzed by using Content Analysis. Along with this to have a comprehensive view of the Innovations practiced by the Institutes of Education, Frequency and Percentage have been computed.