

CHAPTER III

METHODOLOGY

3.0.0 INTRODUCTION

This chapter presents the methodology adopted by the investigator to realize the objectives of the present study. Methodology refers to the plan and procedures one adopts while conducting a research study. Methodology provides the direction to the study towards its completion. Proper choice of methodology makes the study easier for the researcher to complete and to come out with proper findings. As the present study is a survey type of study, research methodology meant for qualitative and survey research is followed here. With the help of the survey of available documents of colleges, universities and the state government, the development and the desired structure of the higher education was found out. To study the detailed system of higher education, a survey was done on sample basis using questionnaires. The present chapter includes population, sample, and design of the study, required data, tools and techniques used for data collection, procedure of data collection and the procedure of data analysis. Detailed research methodology of the present study is given as follow along with the objectives of the present study. The objectives were given here for the better understanding of the methodology as most part of the methodology of the present study is based on the objectives of the present study..

3.1.0 OBJECTIVES OF THE STUDY

The present study was undertaken with the following objectives.

1. To studied the growth of higher education system in the Mayurbhanj district of Orissa since independence with respect to number of institutions, type of institutions, number of students, and number of courses offered.
2. To study the structure of higher education system in the Mayurbhanj district of Orissa with reference to the structure at state, university and institution level.

3. To study the status of higher education system in the Mayurbhanj district of Orissa in terms of functionaries like, management body, principal and teaching staff.
4. To study the management of higher education system in the Mayurbhanj district of Orissa.
5. To study the finance of higher education system in the Mayurbhanj district of Orissa with respect to different types of institutions.
6. To study the community participation in higher education system in the Mayurbhanj district of Orissa at different levels.

3.2.0 RESEARCH METHODOLOGY

The present study is a survey type of study. Research methodology meant for qualitative and survey research is followed here. The details of the population, sample, tools for data collection, procedure of data collection and the procedure of data analysis is given as follow.

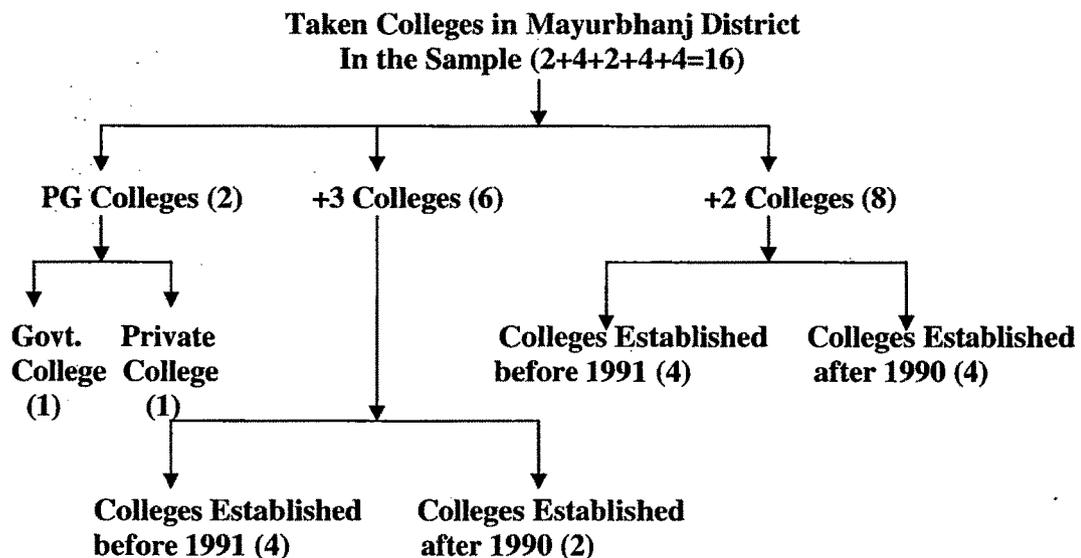
3.2.1 Population

All the general colleges excluding the technical and professional institutions and colleges were considered as the population for the present study. All the government colleges, affiliated colleges with only +2, affiliated colleges with both +2 as well as +3 and Post Graduate colleges were included in the population of the present study. The total number of colleges included in the population were 77. The population comprised of 4 PG colleges (three government colleges and one private aided college), 32 graduate (+3) colleges and 41 numbers of +2 colleges. All the +3 and +2 colleges are private colleges. From +3 colleges 20 colleges had established before 1992 and 12 colleges established after 1991. From +2 colleges 17 colleges had established before 1992 and 24 colleges established after 1991. The list of all the colleges in the Mayurbhanj district is given in appendix 6. All Principals, staff both teaching and non-teaching, management bodies were included in the population.

3.2.2 Sample

Stratified random sampling method was followed to take the sample for the proposed study to achieve objectives 2,3,4, 5 and 6. The sample for the present study was consisted of 16 colleges out of which two colleges were PG colleges (one government and one private college), six colleges were +3 colleges (4 from those colleges established before 1991 and 2 from the colleges those established after 1991) and eight colleges were +2 colleges. From these eight +2 colleges, four +2 colleges were selected randomly from the colleges those established before 1991 and another four +2 colleges were selected randomly from the colleges those established after 1991. The schematic diagram of the distribution of colleges in the sample is given in figure 3.1.

Figure 3.1: Distribution of Different types of the Colleges in the Sample taken through Stratified Random Sampling Method.



Hence, 16 colleges were taken in the sample including 16 principals, 16 management body and 30 teachers from these 16 selected colleges.

3.2.3 Tools of Data Collection

Literature survey was done to collect data related to objective 1 and objective 2. To achieve objective 3,4,5, and 6, four tools were developed by the researcher, one for

the college, one for the governing body, one for the principals and one for the teachers. To collect the data of the present study in the stated required form, the investigator prepared and used the following tools.

- (i) Information Schedule for the college.
- (ii) Questionnaire for Principals
- (iii) Questionnaire for Teaching Staff
- (iv) Questionnaire for Management Body.

For the construction of the said tools, the researcher went through the tools used by the researchers in the related studies and decided to construct the said tools. Items for all the four tools were framed and with the consultation of the guide items for different tools were arranged in a logical order. Content validity of the tools were found out. All the four tools were given to five experts in the fields of education for validation in terms of the content of the tools, appropriateness of the items, sequence of the items and the language of the items. On the basis of the comments and suggestions of the experts the tools were modified. The tools content both open and close ended items. In some cases the respondents were asked few lines related to some items. Details about the items in the tools along with their categories are given in the following tables.

Table 3.1 : Details about the items in the Information Schedule.

S.No	Category of Items	Number of Items
1	General Information about the college like, name, year of Establishment, strength etc.	12
2	Information about the available Infrastructure Facilities like, building, play ground, equipments, library, furniture etc.	8
3	Information about students like, the background of students, strength, result etc.	3
4	Information about staff like, number of staff, their qualification, experience, expertise etc	4
5	Total	27

The Information schedule contained 27 items related to the colleges. Out of these items, 12 items were related to general information about the college like, name, year of establishment, strength etc., 8 items were related to information about the available infrastructure facilities like, building, play ground, equipments, library, furniture etc., 3 items were related to information about students like, the background of students, strength, result etc. and 4 items were related to information about staff like, number of staff, their qualification, experience, expertise etc. Some of the items were open ended and some were close ended. The copy of the information schedule is given in Appendix 2.

Table 3.2 : Details about the items in the Questionnaire for Principals.

S.No	Category of Items	Number of Items
1	Personal Information about the principal like, qualification, experience, salary, academic progress etc.	8
2	Relationship with staff, management, community and higher authority.	6
3	Management, administration and Leadership styles followed.	8
4	Total	22

The questionnaire for principals contained 22 items related to the college principals. Out of these items, 8 items were related to personal Information about the principal like, qualification, experience, salary, academic progress etc., 6 items were related to information related to relationship of principals with staff, management, community and higher authority and 8 items were related to management, administration and leadership styles followed by the principals. Some of the items were open ended and some were close ended. The copy of the questionnaire for principal is given in Appendix 3.

Table 3.3 : Details about the items in the Questionnaire for Teaching Staff.

S.No	Category of Items	Number of Items
1	Personal Information about teaching staff like, qualification, experience, salary, academic progress etc.	9
2	Relationship with principal, students, management, community and higher authority.	6
3	Qualities including teaching, administrative and Leadership.	3
4	Total	18

The questionnaire for teaching staff contained 18 items related to the college teaching staff. Out of these items, 9 items were related to personal Information about the teaching staff like, qualification, experience, salary, academic progress etc., 6 items were related to information related to relationship of teaching staff with principal, students, management, community and higher authority and 3 items were related to the qualities of the teaching staff including teaching, administrative and leadership. Some of the items were open ended and some were close ended. The copy of the questionnaire for teaching staff is given in Appendix 4.

Table 3. 4: Details about the items in the Questionnaire for Management Body.

S.No	Category of Items	Number of Items
1	Information related to structure and constituency like, year of establishment, pattern of membership, rules and regulations followed for members.	14
2	Information related to functionaries like, president, secretary, members, their qualification, contribution etc.	3
3	Information related to General management	8
4	Information related to Financial management like, collection of funds, sources of collection of funds, expenditure heads, future plans etc	12
4	Total	37

The questionnaire for management contained 37 items related to the college management body. Out of these items, 14 items were on information related to structure and constituency like, year of establishment, pattern of membership, rules and regulations followed for members; 3 items were on information related to functionaries like, president, secretary, members, their qualification, contribution etc.; 8 items were on information related to general management; and 12 items were on information related to financial management like, collection of funds, sources of collection of funds, expenditure heads, future plans etc. Some of the items were open ended and some were close ended. The copy of the questionnaire for management body is given in Appendix 5:

After the validation of the tools by the experts, the tools were administered on two near by colleges for the try out and to know the time required to complete the tools, problems faced by the sample while administering the tools etc. Some of the items were found overlapping in different tools and on the basis of the opinion of the experts those overlapping items were kept in the tools to do the cross verification in

the study. On the basis of the try out of the tools some minor modification of the tools were done and the final version of the tools were ready for the data collection.

3.2.4 Procedure of Data Collection

In the year 2005 during December the researcher took the permission from the principals, teaching staffs, management members (secretary of the management body) to administer the questionnaire for the purpose of data collection of the present study. The researchers went to all these 16 colleges personally and given the information schedule and the questionnaires to 16 principals, 16 secretaries of the college management bodies and to 32 teachers 2 each from these 16 colleges selected in the sample and gave them a time of 15 days to send the filled information schedule and the questionnaires. After one month of time the researcher could get only 4 filled information schedule and questionnaires from the principals and six questionnaires from the teaching staff. The researcher contacted the principals, secretary of the management body and the teaching staff many times over phone and requested them to return the questionnaires. In the process the could collected another 2 questionnaire from the principals, two questionnaire from the secretary of the management body and three questionnaires from the teaching staff. Then the researcher decided to have personal visit to those colleges to get the filled questionnaire and information schedule back. With three visits to all the colleges the could collect all the questionnaires from all the principals and secretary of the management bodies and from 30 teaching staff. For the secretary of the managing body the researcher took the interview and filled the questionnaires from them. Principals and secretary of the managing body were very reluctant to give some information related to finance and the management of the college. The could collect the data for the present study in a period of nearly six months. The data related to objective 1 and 2 were collected from the literature survey from the libraries of Utkal University, Bhubaneswar; Revenshaw College, Cuttack, H.M. Library, the M.S. University of Baroda and M.P.C. College Baripada, Orissa. The period of data collection was 2005-06.

3.2.5 Analysis of Data

The use of qualitative techniques were done to analyze the data for the present study. For objective 1 and 2, content analysis of the literature was done to analyze the data and later the data were synthesized to achieve the objectives. For objectives 3,4,5,and 6, data were analysed with the help of frequency and percentage. Details of the procedure of data analysis is presented in table 3.5.

Table 3.5 A Summary of Data Analysis Procedure Adopted According to Different Objectives of the Study.

Objectives	Purpose	Technique of Data Collection	Techniques Used for data Analysis
Objective 1	Growth and development of higher education system.	Literature Survey	Content Analysis, Frequency and Percentage
Objective 2	Structure of higher education system.	Literature Survey	Content Analysis and Synthesis
Objective 3	Status of higher education system in terms of functionaries like, management body, principal and teaching staff.	Questionnaires for principal, staff and management body.	Frequency and percentage
Objective 4	Management of higher education system.	Questionnaires for principal, staff and management body.	Frequency and percentage
Objective 5	Finance of higher education system.	Questionnaires for principal, and management body.	Frequency and percentage
Objective 6	Community participation in higher education system.	Questionnaires for principal, and management body.	Frequency and percentage

3.3.0 CONCLUSION

The present study is a survey type of study. Research methodology meant for qualitative and survey research is followed in the present study. With the help of the survey of available documents of colleges, universities and the state government, the growth, development and the structure of the higher education was found out. To study the detailed system of higher education in term of its structure, management, finance and community participation a survey was done on sample basis using questionnaires meant for principal, staff and management body. The analysis and interpretation of the data is done objective wise. Details of the data analysis and interpretation are presented in the chapter IV as follow.