CHAPTER – III
RESEARCH METHODOLOGY

Introduction:

Every Researcher induces himself meticulously in the subject matter concerning which wishes to pose a problem. In case of social research it is considered advisable to do some field observation and as such the researcher may undertake some sort of preliminary survey or what is often called pilot survey. Then the researcher can himself state the problem or can seek the guidance of the guide or the subject expert in accomplishing this task. Often the guide puts forth the problem in general terms and it is then up to the researcher to narrow it down and phrase the problems in operational terms. In case there is some directive from an organizational authority the problem then can be stated accordingly. The problem stated in a broad general way that contain various ambiguities which must be resolved by thinking and rethinking over the problem. At the same time the feasibility of a particular solution has to be considered and the same should be kept in view while stating the problem.

Need For the Study:

The research investigator is aware of exigency on publication of research papers. The Exigent and imminent trend on “Publish or Perish” made the research community to commence on Publication in journals rather than publications in Qualitative research papers in Indexed Journals. This trend is an alarming situation where it warrants the quality publication for developing research culture.

A research culture could be developed only when intention is on quality rather than quantity. Hence there arises a need for quality publication in Indexed Journals. Hence the rising need is on semitising awareness, accelerating access and ensuring publication of quality papers in reputed indexed journals.

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Statement of the Problem:

The present study will enable the researcher to create awareness on publishing research papers in Indexed Journals.

Towards development of Quality of human resources. Investigator proceeded to develop some strategies to raise level of awareness on research publication in the research process. Hence the problem in the present study is stated. Further this research will motivate to access to the referred journals and it will encourage, the scholars to publish many articles, self-involvement of the researcher also will be enhanced.

Once the Investigator throws light on the awareness. Access. And Achievement of Faculty on the area of Publication in indexed journals it will enable the faculty to be aware of their potential issues on publication. Hence the problem is stated as “Awareness, Access. And Achievement of Citation Index of Educational Research Publication in Indexed Journals”.

Research Questions: Following Research Question were put forth to meet research needs,

1. What is awareness?

2. What is meant by access?

3. Why do we publish the articles?

4. How do develop papers for publishing?

5. How do we publish the research articles?

6. What is citation Index?

7. What are the benefits of the citation index?

8. What are the indexed journals?

9. What are the uses of indexed journals?
10. How to identify the indexed journals?

11. How will you choose the indexed journals?

12. How to identify the indexed journals?

13. What are the indicators of the indexed journals?

14. What are the criterion to identify the Awareness, access, achievement level of faculty on publication?

These Research question will enable the researcher to explain the research work.

**Definition of the Key Terms:**

**Awareness**

“Awareness means format Cognizant of.”

**Access.**

“Access means gain access

**Achievement:**

“Achievement means attainment”.

**Citation:**

“Citation means citing (or) passage cited (or) refer to”.

**Impact**

“Impact means the --- influence in empirical form.

**Faculty:**

It represent the total number of teaching staff members of the college of education and Department of education, which is called as faculty of education.
Following research assumption was put forth

**Research Assumption:**

- There is no awareness on citation index and impact factor in indexed journals among Teaching staff members in colleges of education and department of education.

- Faculty could be motivated to publish articles of educational research in indexed journals.

- The indicator / items in the profile of the faculty of education could be the source of identification of Awareness, Access, Achievement.

- Faculty members awareness, access, and Achievement of citation index could be identified through the profile.

- Faculty may be aware of the parameters of publication

- The Data furnished by the faculty in the annual report will reflect the access and publication in indexed journals.

- Since the annual reports of the University are authenticated documents, it is assumed that the Data furnished by the faculty on publication are valid.

**Research Objectives:**

Initially a decision must be made as precisely what should be researched. After identifying and clarifying the problem with or without exploratory research the researchers should make a formal statement of the problem and the research objectives. This delineates the type of information that should be collected and it provides a framework for the scope of the study or the research projects.
The best expression of a research objective is a well-formed testable research hypothesis. And a hypotheses is a statement that can be refuted or supported by empirical data. In basic research theory is the guide that help generate hypothesis. Once the hypothesis has been developed the researchers are ready to select a research design with this background the objectives are to be stated in such a way that they may lead to the formulation of hypothesis of Researches.

- To identify the status of the profile of teaching staff of college of education, Department of Education and faculty of Education.
- To identify the status of the academic profile of teaching staff of college of education, department of education, faculty of education.
- To identify the awareness on publication of research articles in indexed journals among the teaching staff members of college of education, Department of Education, faculty of Education.
- To identify the access on publication of research articles in indexed journal among the Teaching staff members of college of education, Department of Education, Faculty of Education.
- To find out status of achievement among the teaching staff of college of education, department of education, faculty of education.
- To find out the status of National and International publication of the teaching members of college of education, Department of Education, faculty of Education.
- To find out the distribution of National / International publication of the Teaching staff of college of education, department of education, faculty of education.
• To identify the perception of publication and publication in National / International journals, by the teaching staff of college of education, department of education, faculty of education.

• To identify the significant relation between the predictor variable and publication in National / International journals of teaching staff of college of education, department of education, faculty of education.

• To find out the prediction of publication in National Journals from the academic profile of the teaching staff members of college of education, Department of education, Faculty of education.

• To find out the prediction of publication in International journals from the academic profile of the teaching staff members of college of education, Department of education, Faculty of education.

• To find out the prediction of total publication from the academic profile of the teaching staff members of college of education, Department of Education of Education, faculty of education.

**Hypotheses:**

We can define the concept of theory either broadly or narrowly. A provisional assertion assure to be true for the purpose of testing its validity. The most common use of hypothesis is to test whether an existing theory can be used to solve problem. Hypothesis is an affirmative statement predicting a single research out come, a tentative explanation of the relationship between two or more variable. For the hypothesis to be testable, the variables must be operationally defined. That is the researcher specifies what operations where conducted, or test used to measure each variables. Thus the hypothesis focuses the investigations on a definite target and determines what observations or measures or to be used.

• Publication in National journals by the Teaching staff of College of Education could be predicted from Academic profile in terms of
publication in International journals, total publication funded projects, 
attending the Seminars / conferences / workshop, arrangement of 
seminars / conferences / refresh courses, publication books / 
Monographs, arrangements of endowment / guest lectures and 
extension/ extra curricular activities, awards and Prizes won.

- Publication in International journals by the Teaching staff of college of 
  Education could be predicted from Academic profile in terms of 
  publication in national journals, and total publication funded projects, 
  Attending the Seminars / conferences / workshop, arrangement of 
  seminars / conferences / refresh courses, publication books / 
  Monographs, arrangements of endowment / guest lectures and 
  extension/ extra curricular activities, awards and prizes won.

- Total publication by the Teaching staff of college of Education could be 
  predicted from Academic profile in terms of publication in National 
  Journals and International journals, funded projects, Attending the 
  Seminars / conferences / workshop, arrangement of seminars / 
  conferences / refresh courses, publication books / Monographs, 
  arrangements of endowment / guest lectures and extension/ extra 
  curricular activities, awards and prizes won.

- Publication in National journals by the Teaching staff of Department of 
  Education could be predicted from Academic profile in terms of 
  publication in International journals, and total publication funded 
  projects, Attending the Seminars / conferences / workshop, arrangement 
  of seminars / conferences / refresh courses, publication books / 
  Monographs, arrangements of endowment / guest lectures and 
  extension/ extra curricular activities, awards and prizes won.

- Publication in International journals by the Teaching staff of 
  Department of Education could be predicted from Academic profile in 
  terms of publication in National journals, and total publication funded
projects, Attending the Seminars / conferences / workshop, arrangement of seminars / conferences / refresh courses, publication books / Monographs, arrangements of endowment / guest lectures and extension/ extra curricular activities, awards and Prizes won.

- Publication in Total Publication by the Teaching staff of Department of Education could be predicted from Academic profile in terms of publication in National, and International journals, funded projects, Attending the Seminars / conferences / workshop, arrangement of seminars / conferences / refresh courses, publication books / Monographs, arrangements of endowment / guest lectures and extension/ extra curricular activities, awards and Prizes won.

- Publication in National journals by the Teaching staff of Faculty of Education could be predicted from Academic profile in terms of publication in International journals, total publication, funded projects, Attending the Seminars / conferences / workshop, arrangement of seminars / conferences / refresh courses, publication books / Monographs, arrangements of endowment / guest lectures and extension/ extra curricular activities, awards and Prizes won.

- Publication in International journals by the Teaching staff of Department of Education could be predicted from Academic profile in terms of publication in national journals, total publication, funded projects, Attending the Seminars / conferences / workshop, arrangement of seminars / conferences / refresh courses, publication books / Monographs, arrangements of endowment / guest lectures and extension/ extra curricular activities, awards and Prizes won.

- Total publication by the teaching staff of faculty of education could be predicted from academic profile in terms of publication in National and international journals funded projects, attending the seminars / conferences / workshops, arrangements of seminars / conferences /
refresh course, publication books / monographs, arrangements of endowment / guest lectures and extension / extra curricular activities, award and prizes won.

**Delimitation of the Study:**

1. This study was delimited to the sample of Alagappa University. College of Education and Department of education teaching staff members.

2. Data on the annual report for five years from 2005 to 2010 were only collected.

**Research Design:**

A research design is the specification of methods and procedures for acquiring the information needed. It is the overall operational pattern of the projects that stipulates what information is to be collected from which sources by what procedures. The essential of a good research design are a plan that specifies the sources and type of information relevant to the research questions.

Research design is a catalogue of the various pluges and facts relating to the formulation of a research effort. It is the arrangement of conditions for collection and analysis of data in a manner that aims to combine relevance to the research purpose with economy in procedure.

**Case Study:**

In this research “the Case” refer to the faculty of education of Alagappa University. Academic profile that reflect on the details pertaining to the access and publication were taken as a case unit of the sample. All publication details and other details related to awareness access and publication of the faculty of education of achievement alone were studied and taken as a case study.
In a case the investigator attempts to examine an individual or unit in depth. The investigator tries to discover all the variables that are important in the history or development of the subjects.

**Content Analysis:**

Content analysis is a research technique for the systematic and quantitative descriptions of the manifest content of communication.

Content analysis is any research technique for making references by systematically identifying specified.

Content analysis is the equivalent of document study to survey research. The purpose of content analysis cover virtually all area of specialization encompassed by survey techniques. In addition content analysis has some special purpose. Such as the determination of authorship for document whose authority is questionable. The content provided in the Annual Report of the University were analyzed in accordance with the objectives.

In this research the case represent the publication aspect and others details pertaining to the teaching staff members of College of education and Department of education. The profile of the teaching faculty members, publication in the Annual Report were subjected to the content analysis.

**Construction and Validation of Research Tool:**

A research tool is an instrument to collect the Data and used to draw inferences towards contribution in area of research.

The investigator formulated a research problem on Awareness, Access and Achievement of citation index of educational research publication in indexed journals.

After the formulation of research title the investigator probed on awareness, access, and achievement. It was the aim of the researcher to identify the level of awareness on publication access to publication and to indexed
journals. Hence the researcher has to collect data on the variables, awareness, access and achievement of the citation index. Among the various research tools the investigator chosen the academic profile and questionnaire to identify the awareness, access and Achievement in publication.

A questionnaire was constructed to know on the various kinds and forms of sources to identify their awareness and access. For this purpose various items were collected on basis of motivating factor, online publication, indexed journals. Citation index impact factor, top rank indexed journals, importance of publication, influence of seminars, specification of publication, referred journals, guiding factor, on the basis of above predictor, their awareness was to be collected. They have to respond for each time ‘Yes’ or ‘No’. The ‘Yes’ responses, reflects their awareness and ‘No’ responses reflects their unawareness. All these items were pooled together and scrutinized by the research scholar and research guides, faculty member and experts’ in the field of educational research. The experts corrections were considered and corrections were made appropriately and again the items were finalized to identify the level of awareness on publication.

Likewise the same processes were adopted for identifying the level of access and their perception on publication and their publication. The data were collected from the research tool questionnaire on awareness, access, and achievement.

Thus the content validity of the tool was established. The reliability of the tool also established by using K.R. Twenty method the value was 8. The tool thus focused ensures the validity and the reliability, the correctness of the data on academic profile of the faculty that was placed in annual reports that were approved by the senate syndicate of the university which ensures the authenticity, and accuracy of data on publication from the Annual Report of the University from 2005 to 2010. In the Annual reports following data on funded Projects, Number of Books / Monographs published, arrangement of endowment / Guest lectures, attending of Seminars / Conferences / Workshop,
and organized, Number of Publication in National / International journals, Extra curricular activities/ sports, Number of Awards / Prizes won by the staff etc. were taken into account.

The above items were collected from the Annual Report in University relating to the academic achievement of faculty’s publication with reference to their awareness, access and their Perception on publication.

**Data Collection:**

Data were collected over a period from 2005 to 2010, since this period was selected as it was the NAAC Reaccreditation period. Academic profiles were collected from the perspective faculty by the University on the basis of State government and UGC guidelines, to ensure uniformity at the National level. Hence the academic profiles were culled out from the University Record for the base line Data and for authentic data since they were identified at Department faculty, NAAC support group, of the NAAC Secretariate, at the University level. Then profile of the faculty were collected. Apart from this teachers were contacted and they gave their responses to the questionnaire, They personally reflected the awareness and access level in addition to their perception on attainment.

**Schema of Data Analysis:**

All the collected data were subjected to three kinds of analysis. Namely, Descriptive, Relational and multiple regression analysis.