

**QUANTITATIVE ANALYSIS OF DOCTORAL THESIS IN EDUCATION****AVAILABLE AT SHODHGANGA****Charudatta Achyut Gandhe, Ph. D.***Librarian, Adarsha Comprehensive, College of Education and Research, Pune. 411046***Abstract**

*The present paper focuses on analysis of all doctoral thesis in Education available at INFLIBNET Shodhganga- an ETD of Indian thesis and dissertation. The analysis was carried out according to universities which uploaded thesis on Shodhganga, year of submission to Shodhganga. The paper also focuses on various areas in Education on which thesis are available on Shodhganga.*

**Keywords:** ETD, Doctoral Thesis, Education, Shodhganga



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**1. Introduction:**

Shodhganga is an online repository of Electronic Thesis and Dissertation which is controlled and managed by INFLIBNET. All the universities in India are expected to upload the doctoral thesis of research carried out by their research scholars. Presently total 99996 doctoral thesis, 3485 synopsis, of various disciplines are available on Shodhganga. Count of doctoral thesis in education is reached up to nearly 1100. Present study aims to focus on quantitative analysis of all the available doctoral thesis in education available on Shodhganga.

**2. Need for the study :**

Shodhganga provides a user friendly interface to search thesis by multiple ways. But sometimes it gives results that includes some thesis in irrelevant disciplines. Also researchers do not have the knowledge of using standard terms and Boolean operators. As a working librarian in a Teacher Education College, researcher experiences that many researchers are not aware of shodhganga and/or able to access appropriate thesis of their need. The reason may be lack of some required skills (Information Literacy ?). To make ease to access these thesis and to get appropriate thesis, an analysis of all the available thesis is needed. After this analysis, a researcher and even librarians in teacher education colleges could access the thesis by various ways i.e. university, year of submission, guide, author and subject.

### **3. Review of Literature:**

Kushkowski and others stated that characteristics of thesis as : a thesis shows proof of both an original contribution to knowledge and substantial subject knowledge in a discipline. While a thesis provides evidence of significant scholarly achievement, the mechanics involved in producing the thesis are part of the socialization process for young scholars (Kuskowski et.al., 2003).

Davinson (1977) also states that, the doctoral thesis has come to be thought of in some countries and institutions as simply the demonstration that a certain amount of research methodology has been transmitted and received, with much less emphasis is than used to be the case upon the nature and significance of the topic explored.

Beile, Penny and others(2003) analysed doctoral thesis in education from referencing point of view. Most of the researches found are related to citation analysis of doctoral thesis in education.

In Indian scenario, especially, regarding Shodhganga, researcher is not come across any research related to quantitative analysis the doctoral thesis available on Shodhganga.

Shodhganga is the digital repository of Indian Electronic Thesis and Dissertations which is set up by INFLIBNET. It is an online repository which collects, stores, maintains and provide access to Thesis and dissertations by Indian Universities which have signed MOU with INFLIBNET. As on date 280 Universities from India have signed MOU with INFLIBNET and 261 universities are contributing. Presently, 99996 full text thesis are available on Shodhganga from all disciplines. It provides 24 \* 7 access to full thesis in nearly all disciplines of research. it also facilitates various search techniques to search a particular thesis on specific subject. Online availability of electronic theses through centrally-maintained digital repositories, not only ensure easy access and archiving of Indian doctoral theses but will also help in raising the standard and quality of research.

### **4. Objectives:**

1. To analyze doctoral thesis in education as per University that uploaded thesis.
2. To rank university that uploaded the thesis on shodhganga.
3. To Analyze doctoral theses according to date of submission.
4. To analyze doctoral thesis in education as per main areas in Education.
5. To rank main research areas carried out in education and available on Shodhganga.

### **5. Scope and Limitations:**

Present study focuses on the entire thesis in Education available on shodhganga as on 8<sup>th</sup> August 2016. Total count on the said date is 1087. Present study is restricted only up to Quantitative analysis. The qualitative analysis of thesis is not carried out in this study.

### **6. Methodology:**

The thesis used in this study are taken from INFLIBNET Shodhganga online repository, which was started in 2010 to collect thesis in digital form and made available in open access mode. The thesis in this repository are arranged according to date of submission to Shodhganga. It facilitates searching through multiple ways i.e. keyword, researcher, guide and date of completion.

Thesis in education were searched by using subject search “education”. All the thesis (1087) in education discipline searched on Shodhganga are selected for the present study. University to which thesis was submitted, researcher, guide, date of submission, date of completion and title were recorded from bibliographic record of each thesis which was provided in Shodhganga for each thesis. Some thesis were excluded as they were not related to Education. All this data was fed to MS EXCEL and sorted and sorted in ascending order separately according to each data element.

Analysis was carried out according to researchers’ University, year of submission and year of completion. Each title was perused, and on the basis of title the areas of research were identified and recorded these areas under subclasses of education class mentioned in the Dewey Decimal Classification Edition 19. Thus, all the titles were distributed in 10 subclasses i.e. from 370 to 379. Deep classification were not carried out in present study. Also subjects those are not listed in Edition 19 like population education, environmental education etc. are considered in subclass 370.

### **7. Statistical techniques used:**

Descriptive Statistical techniques including Graphical presentation, and percentage were used.

### **8. Findings and Interpretation:**

In order to check the number of universities contributing their doctoral thesis, the all the data was grouped by universities. Following Table Number 1 gives the description of number of universities contributed doctoral thesis in education against number of universities offering teacher education courses.

Number of Universities offering Teacher Education Course	Number of Universities uploaded Doctoral Thesis on Shodhganga
140	75

**Table 1 Universities contributing on Shodhganga**

Total 140 Universities have recognized by National Counsel of Teacher Education to offer various courses in Education. Out of these 140 Universities, 75 Universities i.e. 53.57% universities contributed in Shodhganga. The percentage is still considerably less because either rest of the universities may not offer doctoral research in education or they are not keen towards uploading doctoral thesis on Shodhganga. Those universities which are offering doctoral research but not uploading all doctoral thesis are need to motivate to upload doctoral thesis in education on shodhganga.

### **9. University wise Distribution :**

From the collected data, Out of 75 Universities, top 10 universities which uploaded Doctoral thesis on Shodhganga are listed in following Table Number 2:

<b>Name of University</b>	<b>No. of Thesis Uploaded</b>	<b>Thesis Available since (Year of Submission)</b>
Maharaja Sayajirao University of Baroda	120	1964
Gauhati University	119	1969
Shri Jagdishprasad Jhabarmal Tibarewala University	88	2012
Bundelkhand University	77	1984
Mahatma Gandhi University	58	2001
University of Calicut	50	---
Gujarat University	43	1963
Karnatak University	34	1969
Sri Krishnadevaraya University	31	1990
maharshi Dayanand University	30	2010

**Table No. 2 Top Ten Universities contributing**

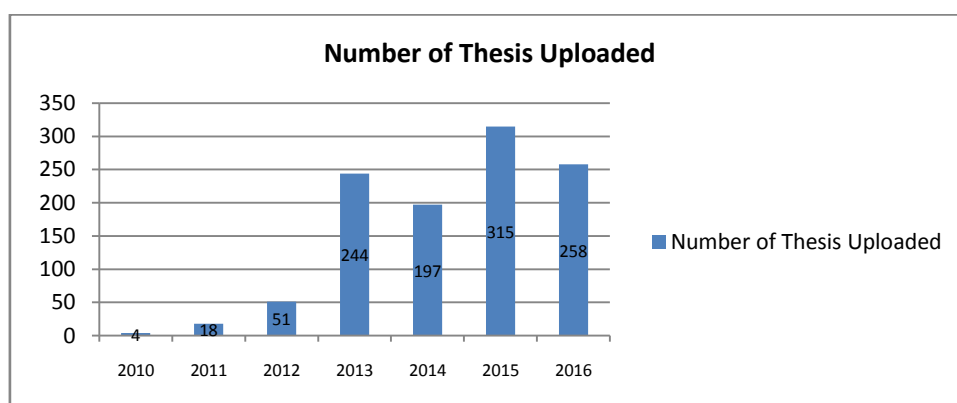
From Table No. 2 it could be noticed that Maharaja Sayajirao University have uploaded total 120 thesis in Education followed by Gauhati University which is 119. The count of MSU and Gauhati University is much high because both the universities uploaded the thesis submitted since the decade of 1960s. It seems that both the universities have taken an appreciable efforts by digitizing all the previous thesis and made available to all through a channel of ETD Shodhganga. Shri Jagdishprasad Jhabarmal Tibarewala University is ranked 3<sup>rd</sup>. Unlike previous two universities, this university has uploaded doctoral thesis submitted in and after 2012. It seems that Shri Jagdishprasad Jhabarmal Tibarewala University uploaded almost all the thesis submitted. Bundelkhand University ranked 4 has uploaded 77 doctoral

thesis submitted since 1984. This university has also taken appreciated efforts by digitizing previous thesis and made available to all through a channel of ETD Shodhganga. Mahatma Gandhi University, Gujrat University, Karnatak University and Sri Krishnadevraya University also have taken appreciable efforts by digitizing all the previous thesis and made available to all through a channel of ETD Shodhganga. The Shodh Ganga Also provided, on their home page, top 10 universities contributing doctoral thesis in which Maharaja Sayajirao University, Karnatak University ,Guahati University and Gujrat University have also included which are ranked in top 10 universities which uploaded doctoral thesis in education also.

From above description it could be stated that many universities have started digitization process so as to preserve the previously generated knowledge and also made it available publically. But this digitization process, though costly and bit complex should be followed by all the universities so that previous research which would publish publically to all. INFLIBNET also insist all the university to start digitization process and also should provide technical and financial assistance.

#### **10. Analysis of Thesis according to Year of Submission:**

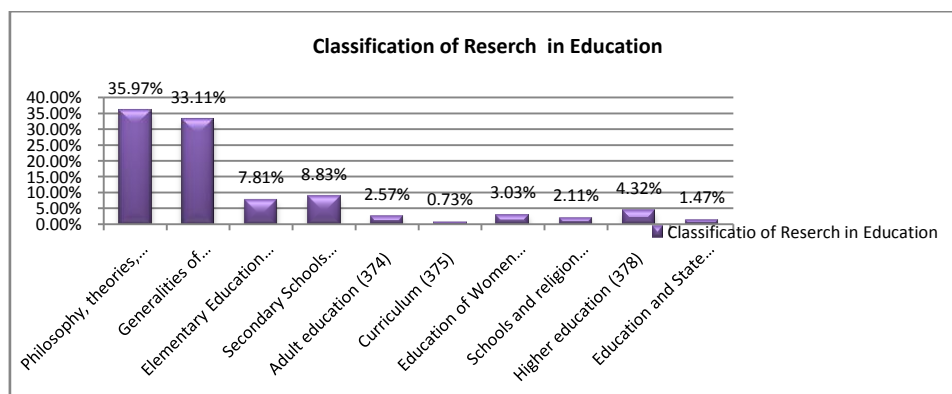
Though the analysis of thesis according to date of submission may not have much significance, we see towards the date of submission from digitization and awareness point of view. Following graph describes the number of thesis uploaded from 2010 to 8<sup>th</sup> August 2016.



From above Graph Number 1, it could be stated that, there was a consistent increase in uploading thesis from 2012 to 2013. In 2014, comparatively less number of thesis were uploaded and then after 2015 to 8<sup>th</sup> August 2016, again an increase is seen. It is crystal clear that, the awareness of uploading thesis and also of digitizing the old thesis is increasing.

### 11. Classification of Thesis:

For area wise analysis, first all the titles of thesis were perused. According to Dewey Decimal Classification Scheme (19<sup>th</sup> Ed.) all the titles were divided in 10 subclasses i.e. from 370 to 379. The deep classification was not carried out. Following Graph Number 2 describes the percentage of thesis available according to subclasses of class education.



**Graph No. 2 Classification of Thesis on Shodhganga**

From . Graph No. 2, it could be seen that 69% thesis in Education submitted to Shodhganga are classified in two subclasses i.e. 370 which includes Philosophy, theories, generalities includes education for Specific objectives ,classification and other philosophical foundations, scientific principles, educational psychology, social aspects of education and subclass 371 which included Teaching and teaching personnel, , educational administration, Methods of instructions and study, guidance and counseling, school discipline, physical plant, school health and safety, The student ,Special education. Many researchers conducted research related to philosophy of education, psychology of education and sociology of education. The Educational Psychology is the prime area of research in education as it is related to various changes of personalities of students. Regarding thesis classified in subclass 371, it could be stated that Majority of thesis in this subclass are related to methods of instruction – both teaching and learning followed by Educational Administration and evaluation techniques. Majority of research is conducted to check the effectiveness of old, new and innovative Methods of instruction –both teaching and learning. Most of the researchers in education are conducted by teacher educators. In teacher education sector, focus is more on philosophy and psychology than any other sub areas. Most of the teacher educators are doing their research which are related to school students especially secondary school students.

In subclass 372 i.e. elementary education and 373 secondary education, comparatively less thesis are found i.e. 7.81% and 8.83% respectively. Subclass 374 is regarding Adult Education which is supposed to be the duty of only government, but teacher educators and other personnel in education sector can also play a vital role in this sector, but the percentage of thesis related to adult education is only 2.57% which is very less. About subclass 375 - curriculum the number of thesis available on Shodhganga is 0.73% which is considerable less. Curriculum plays a vital role in education, developing curriculum is itself a research, but teacher educators are not seem to be keen towards curriculum research. Regarding rest of the subclasses i.e. 376- women education the percentage of thesis is 3.03, 377 – school and religion percentage of thesis is 2.11, 378- higher education the percentage 4.32 and in subclass 379 the percentage of thesis available on Shodhganga is 1.47 which is also less.

## **12. Conclusions:**

Majority of thesis available on Shodhganga are related to Philosophy, psychology, methods of instruction, administration and evaluation. Other areas, though important, there are relatively very low number of thesis available. The awareness of uploading thesis and also of digitizing the old thesis is increasing. Many universities have started digitization process so as to preserve the previously generated knowledge and also made it available publically. But this digitization process, though costly and bit complex should be followed by all the universities so that previous research which would publish publically to all. INFLIBNET also insist all the university to start digitization process and also should provide technical and financial assistance. Universities providing teacher education, research guides, policy makers and teacher educators should insist researchers to focus on these uncovered sectors also. Also teacher educators should insist school personnel to conduct a research.

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