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## A Statistical study on Research Output of Bangalore University: 1966-2017

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**Abstract** - Research productivity in higher education is gaining importance for the past one decade in India. This study aims to analyze the statistical data of PhD Thesis awarded by Bangalore University. The paper further discusses the need and importance research output. Data was collected from Bangalore University Library 'thesis catalogue'. The data is analysed through statistical tables and graphical representations. The results shows that, as of June 2017, a total of 3,036 thesis submitted by 42 Departments. Department of Kannada Studies has submitted highest number of theses (331, 10.90%) followed by Zoology (248, 08.17%), Botany (207, .6.82%) and Physics (205, 06.75%). the maximum number of thesis submitted in the year between 2000 and 2015.

**Keywords:** Bangalore University, Ph.D. Thesis, Statistical Analysis, Research Output.

## Introduction

Research Work is the most important intellectual practice within the framework of higher education. That makes room for Reliable solutions to the problems that are present in different fields of expertise. It takes along Prestige not only for the government, but also for the department and university, as well as for researchers. Neither university can continue to statistics in this dynamic environment today. They have to grow Through constantly and deliberately introducing new concepts, inventions and developments in the different fields Knowledge that ensures the growth of a topic and leads to the development of sound theories of the subject, The research work is primarily responsible for a country's science and technology , social and economic growth. It was seen as a guiding factor in the development and shaping of a nation's sustainable future. The research has been important in some universities Contributor and guide in the realization of its key skills. Or put it another way, research is a How to leverage and find ways to fulfil the world's need<sup>[1]</sup>

Bangalore University was established in 1964 as a State University and is the third oldest University in Karnataka, India. It has four campuses are JnanaBharathi, Bangalore, Central College, Bangalore, Kolar PG Centre, and Ramanagara PG Centre. It has 6 streams - Arts,

421 International Research: Journal of Library & Information Science | Vol.6 No.3, September, 2016 Science, Commerce, Law, Education and Engineering with 48 Postgraduate Teaching and Research Departments offering a total of 209 academic Programs. We have 353 Faculties, 751 non-teaching and 230 technical staff. There are 3 University Colleges, 11 Autonomous Colleges and 606 Affiliated Colleges with a total student strength of about 3.5 lakhs<sup>[2]</sup>

The Bangalore University Library has a rich collection of about 3, 80,000 Text Books & Reference Books, 226 Current Journals, 58,000 Bound Volumes, 45 News Papers and 37 Magazines. As of June 2017, 42 Departments of Bangalore University had submitted a total of 3,036 thesis<sup>[3]</sup>

### **Review of Literature:**

Veerabasavaiah and Muthuraja (2016) they conducted analytical study of doctoral research in the Department of Economics, Bangalore University, Bangalore. The study shows 131 Ph.D. Thesis have been produced by the Dept. of Economics, the highest 67 (51.14%) in 2004-2014 Followed by 48 (36.64%) in 1994-2003. Lastly very less 16 (12.22%) in 1984-1993 degree awarded. Barik and Jena (2015) They analysed the 41 doctoral thesis in Library and Information Science to find the doctoral research trends of the Utkal University and found fluctuate growth rate in publication of doctoral thesis at an average 13.14 annual growth rate. In the year 2014 and 2015 highest 4 numbers of thesis in each year have been published in a row of year wise productivity. Padmamma and Walmiki (2012) conducted an logical study and has shown the total strength of research productivity of Kuvempu University considering the total PhDs submitted year-wise, department-wise, rank-wise and gender-wise. Research productivity in higher education is gaining importance for the past one decade in India. Teaching and research are the two major functions of the university faculties. However, research has gained momentum during the past one and half decade, mainly due to support received through Ph.D. Program, in-house projects, and government funding projects (Kumbar et al., 2008).

### **Objective of the Study**

- To articulate the gender, year, stream wise Research output of Bangalore University
- To analyze the medium and department wise Research output of Bangalore University
- To identify out the Topmost Awarded Guide of PhD Thesis in BUL

### **Scope and Methodology:**

In this paper, an attempt has been made to describe growth, specific stream and department wise contribution is carried out analyze to identify strong and weak areas of research done by the scientists at Bangalore University. The study was conducted based on the PhD Thesis Submitted to Bangalore University Library Jnanabharathi Campus only, A larger time coverage data has been used from 1970 to 2010 for analyzing the growth and impact of the university research to ensure accurate results. The collected data which was separated based on by gender, year wise, department, subject, Guide.

Results and Discussions

**Table-1. Gender wise Research output of Bangalore University:**

Sl.No	Gender	No of Thesis	%
1	Male	2091	68.87
2	Female	945	31.13
<b>Total</b>		<b>3036</b>	<b>100</b>

Table1. Shows no. of male and female research scholars submitted their Ph.D. thesis to the Bangalore University Library. This table shows highest no of thesis such as 2091 (68.87%) thesis submitted by Male research scholars and other 945 (31.13%) thesis submitted by Female research scholars out of 3036 thesis.

**Fig-2. Percentage Growth Ph.D thesis of Bangalore University as research output:**

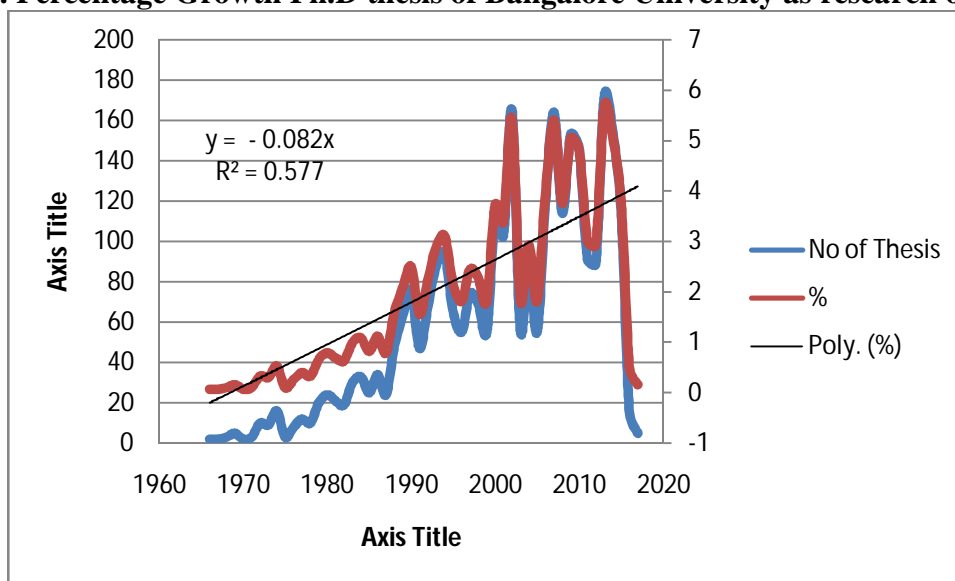


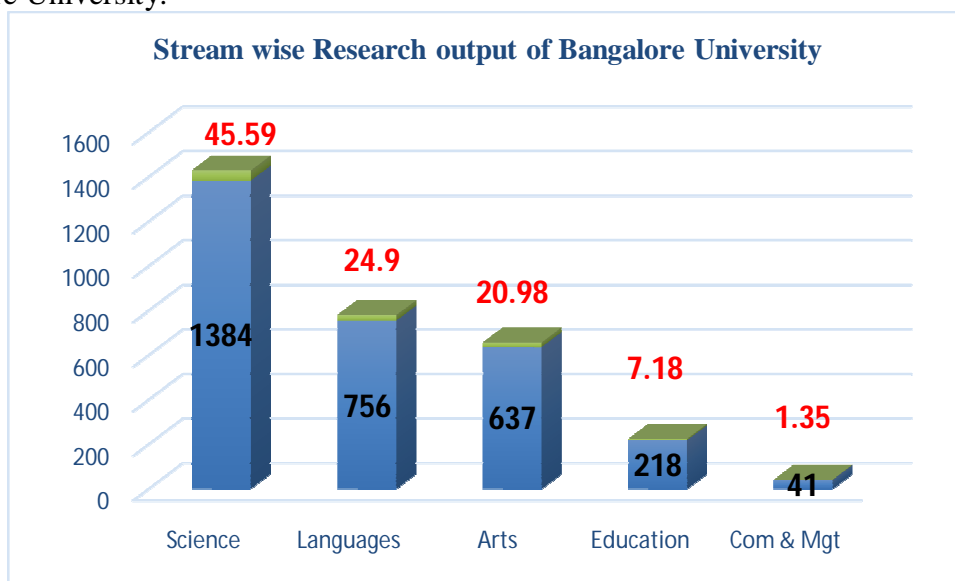
Table 2 shows yearly distribution of thesis submitted to BUL. In the year of 2014 a maximum 172 (5.67%) thesis were submitted, and followed by in the year 2002 No of 165 (5.43%) thesis, 2007 a no. of 164 (5.40%) thesis, 2014 a no. of 154 (5.07%) thesis and 2009 153 (5.04%) thesis were submitted to BUL. During the year of 2000 and 2015, a maximum no. of the thesis was submitted. The growth of Ph.d thesis in BUL is increased polynomial way over the years from 1966 to 2017 and coefficient of determination is 0.57.

**Table-3. Stream wise Research output of Bangalore University:**

Sl. No	Stream	No of Thesis	%
1	Science	1384	45.59
2	Languages	756	24.90
3	Arts	637	20.98
4	Education	218	07.18
5	Com & Mgt	41	01.35
<b>Total</b>		<b>3036</b>	<b>100</b>

Table 3 deals with the subject discipline such as Arts, Science and commerce. The table shows that the highest no. of thesis submitted by Science subjects 1384 (45.59%) thesis, second highest no. of thesis submitted by Languages 756 (24.90%) thesis followed by Arts

subjects 637 (20.98%), Education 218 (07.18%) and Commerce & Management 41 (01.35%) thesis were submitted to BUL. These are all subject disciplines offered to study from Bangalore University.



**Table-4. Medium wise Research output of Bangalore University:**

Sl.No	Medium	No of Thesis	%
1	English	2211	72.83
2	Kannada	545	17.95
3	Hindi	193	6.36
4	Telugu	57	1.88
5	Sanskrit	20	0.66
6	Urdu	10	0.33
<b>Total</b>		<b>3036</b>	<b>100</b>

Table 4 depicts the medium wise distribution of thesis submitted to BUL. this table shows thesis writing in different languages. The Maximum of the thesis is written in English languages 2211 (72.83%) thesis, and 545 (17.95%) thesis was submitted in Kannada language and followed by Hindi 193 (6.36%) thesis, Telugu 57 (1.88%) then Sanskrit 20 (0.66%) thesis were submitted.

**Table-5. Department wise Research output of Bangalore University**

Sl.No	Department	No of Thesis	%
1	Kannada	331	10.90
2	Zoology	248	08.17
3	Botany	207	06.82
4	Physics	205	06.75
5	Hindi	193	06.36
6	Psychology	159	05.24
7	Education	149	04.91
8	History	145	04.78
9	Economics	139	04.58
10	Geology	114	03.75
11	Sericulture	105	03.46
12	Sociology	96	03.16

13	Sanskrit	88	02.90
14	Political science	84	02.77
15	English	77	02.54
16	Performing arts	72	02.37
17	Physical Education	69	02.27
18	Telugu	57	01.88
19	Social work	54	01.78
20	Environmental Sc.	48	01.58
21	Geography	43	01.42
22	Chemistry	42	01.38
23	Mathematics	39	01.28
24	Microbiology	33	01.09
25	Bio-technology	31	01.02
26	Library & Inf. Sc.	26	00.86
27	Commerce	22	00.72
28	Rural Development Studies	22	00.72
29	Statistics	19	00.63
30	Management	19	00.63
31	Philosophy	19	00.63
32	Applied Genetics	12	00.40
33	Communication	12	00.40
34	Electronic science	12	00.40
35	Computer Science	10	00.33
36	Urdu	10	00.33
37	Biochemistry	08	00.26
38	Yogic Science	06	00.20
39	Women Studies	06	00.20
40	Apparel technology	02	00.07
41	Molecular Biology	02	00.07
42	Speech and Hearing	01	00.03
<b>Total</b>		<b>3036</b>	<b>100</b>

Table 5 presents the no. of thesis submitted by University departments. Total 42 departments contributing the thesis submission in BUL. This table ordering from the highest number to lowest number of thesis were submissions. According to this table highest no. of 331 (10.90%) thesis submission boast is department of Kannada studies, an order to next following the department of Zoology 248 (08.17%) thesis, Department of Botany 207 (06.82%) thesis and department of Physics and Hindi following 205 (06.75%)& 193 (06.36%) thesis were submitted.

**Table – 6. Topmost Awarded Guide of PhD Thesis in BUL**

Sl.no	Name of the Guide	Department	No of Thesis	%
1	Prof.Somashekar, R.K.	Environmental Sc.	34	1.11
2	Prof.Vimala, M	Hindi	24	0.79
3	Prof.Talawar, M.S.	Education	23	0.75
4	Prof.Saragy Krishna Murthy	Hindi	23	0.75
5	Prof.Sivakumaraswamy M	Sanskrit	21	0.69
6	Prof.VinodaN.Murthy	Psychology	20	0.65
7	Prof.ShakuntalaKatre	Zoology	20	0.65
8	Prof.MithaliBattacharjee	Hindi	19	0.62
9	Prof.Gayatri, M.C. ,	Botany	17	0.55
10	Prof.Rayamane, A.S	Geography	17	0.55

Table 6 shows that Top 10 Awarded Guide of PhD Thesis in Bangalore University during the study, Prof.Somashekar, R.K. Department of Environmental Science guided the Maximum of 34 (1.11%) Phd Awarded followed by 24 (0.79%) Prof.Vimala, M from Hindi and 23 (0.75%) Prof.Talawar M S from Department of Education Awarded the PhDs.

### Findings

- This study shows that highest no of thesis such as 2091 (68.87%) thesis submitted by Male research scholars and 945 (31.13%) thesis submitted by Female research scholars out of 3036 theses.
- During the year of 2010 to 2015, a maximum no. of the thesis was submitted.
- The most of Science subjects 1384 (45.59%) thesis, followed by Languages 756 (24.90%) thesis and Arts subjects 637 (20.98%), Education 218 (07.18%) and Commerce & Management 41 (01.35%) thesis were submitted to BU.
- The Maximum of the thesis is written in English languages 2211 (72.83%) thesis, and 545 (17.95%) thesis was submitted in Kannada language and followed by Hindi 193 (6.36%) thesis, Telugu 57 (1.88%) then Sanskrit 20 (0.66%) thesis was submitted.
- This study shows that highest no 331 (10.90%) thesis submission is department of Kannada studies, and Zoology 248 (08.17%) thesis, Department of Botany 207 (06.82%) thesis and department of Physics and Hindi following 205 (06.75%) & 193 (06.36%) thesis was submitted.
- During the study, Prof.Somashekar, R.K. Department of Environmental Science guided the Maximum of 34 (1.11%) Phd Awarded followed by 24 (0.79%) Prof.Vimala, M from Hindi and 23 (0.75%) Prof.Talawar M S from Department of Education Awarded the PhDs.

### Conclusion:

Bangalore University was set up in 1964, since then the university has been steadily becoming excellent centre for research and learning. Though 56 years old, Bangalore University produced remarkable PhDs holders in all disciplines. The present study has been carried out and find out the significant contributions of research scholars towards Bangalore University to become a centre of research and learning. It is suggested that Bangalore University should laid down more focus and provide more opportunities to researchers to conduct research towards getting a PhD degree.

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