

An Analysis of Doctoral Theses in Education uploaded in Shodhganga Repository with special reference to West Bengal

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Abstract

Doctoral theses represent comprehensive research reports conducted by investigators. The purpose of theses is to showcase the knowledge and develop expertise in the required field. In the digital era of education, a bulk of resources is accessible through various online platforms which enables universal access and knowledge upgradation. The Shodhganga INFLIBNET Centre stands out as a pivotal platform offering researchers valuable insights into the current trends in Indian research keeping at par with the quality and utilization of resources. This study aims to examine the doctoral theses uploaded by universities in West Bengal on the Shodhganga repository. The unseen factors which included duplicity get overcome when the authenticity and quality is taken into consideration. The analysis encompasses a total of 458 doctoral theses from 12 different universities of West Bengal. It is noteworthy that among the 51 universities in West Bengal, 31 have signed MOU with the Shodhganga INFLIBNET centre. However, the study highlights that the University of Calcutta has the highest number of doctorate theses, followed by Jadavpur University, the University of Burdwan in second and third place, respectively.

Keywords: *Shodhganga Repository, INFLIBNET-Centre, Doctoral Theses in Education, Higher Education, Research Trend..*

Introduction :-

Research at doctoral level signifies the highest level of education. It contributes to the unique and gives an indisputable identity to the researcher's in-depth plunge in finding the truth. The theses, if untapped and not recognized, can lead to duplication, repetition, and pave a way for plagiarism. To curb the error, it was seen that in the year 2016, UGC came up with mandatory submission of theses which will be accessed digitally worldwide. Shodhganga serves as this unique platform for open access and quality research theses. Ancestrally mandate digital repository not only ensures equal access but also looks after quality research which would see to the unseen factors. INFLIBNET has been designated as the digital archive responsible for the preservation, hosting, and retrieval of theses from all colleges and universities. Shodhganga is a platform that serves as a repository of intellectual reservoir and commendable contributions, managed by the INFLIBNET centre.

The Shodhganga-INFLIBNET is an open-source digital repository software called Dspace (Esh, 2015, & Khode, 2020) developed by MIT (Massachusetts Institute of Technology) in partnership with Hewlett Packard (HP) (Thamaraiselvi, et.al., 2016). The protocols used follow all the international norms and order. The input in Shodhganga enables the research scholars to contribute immensely to this desired platform. This repository enables us to store, disseminate and

maintain a required index of the theses that has been uploaded which provides universal accessibility to all. Dspace favors open archives initiatives protocol for meta harvesting data support platform with this many universities have used their repositories using Dspace. With the required internet infrastructure and connection, the universities will be able to provide the research scholars the e-versions of the theses. There is replication of the academic structure based on their departments, centers as well as colleges and each university must facilitate in case of navigation and retrieval of the dissertation and theses.

An Overview of Doctoral Theses Uploaded in Shodhganga Repository:

Quantitatively, there are 233 universities in India, identified with having the doctoral theses in Education. By these universities, a total of 376639 theses were uploaded in Shodhganga repository, while only 17,400 are related to the field of education. The table below shows a comprehensive picture of the number of theses uploaded by the universities in India.

Table 1: University-wise Number of Doctoral theses in Education uploaded in Shodhganga across the country

Sl. No.	Name of the University	Total No. of Theses Uploaded in Shodhganga	Total No. of Theses in EDUCATION
1.	Punjab University	8859	817
2.	Chhatrapati Sahuji Maharaj University	10157	720
3.	Dr. Rammanohar Lohia Avadh University	4636	494
4.	Sardar Patel University	3271	472
5.	Maharaja Sayajirao University of Baroda	4030	425
6.	Shri Jagdishprasad Jhabarmal Tibarewala University	3630	423
7.	Utkal University	5628	419
8.	Alagappa University	2434	367
9.	Maharshi Dayanand University	4579	349
10.	Veer Narmad South Gujarat University	3301	332
11.	Manonmaniam Sundaranar University	7236	322
12.	Savitribai Phule Pune University	12378	321
13.	Andhra University	9538	312
14.	Gauhati University	6249	300
15.	Jamia Milia Islamia University	2287	292
16.	Pacific University	2254	283
17.	Gujarat University	4433	282
18.	North-Eastern Hill University	2616	275
19.	Saurashtra University	3250	261
20.	Banaras Hindu University	6801	254
21.	University of Madras	14589	247
22.	University of Calcutta	14059	238

23.	University of Kerala	6527	231
24.	Maharaja Ganga Singh University	2268	228
25.	Shivaji University	4804	227
26.	Karnatak University	4984	220
27.	Aligarh Muslim University	9860	219
28.	Himachal Pradesh University	3117	213
29.	Banasthali Vidyapith	2122	191
30.	Dr. Babasaheb Ambedkar Marathwada University	5513	189
31.	Dr. B. R. Ambedkar University Agra	6006	186
32.	Sant Gadge Baba Amravati University	2508	185
33.	Chaudhary Charan Singh University	2874	181
34.	University of Mysore	4198	179
35.	Bharathiar University	7383	170
36.	Swami Ramanand Teerth Marathwada University	5449	170
37.	Institute of Advanced Studies in Education	175	156
38.	University of Delhi	5208	150
39.	SNDT Women's University	1249	149
40.	Punjabi University	3005	137
41.	Bundelkhand University	2200	128
42.	Bharathidasan University	8270	122
43.	Maharaja Krishnakumarsinhji Bhavnagar University	1456	118
44.	Assam University	2163	117
45.	Gujarat Vidyapith	602	117
46.	Jiwaji University	2180	113
47.	Kumaun University	1696	110
48.	Mahatma Gandhi Kashi Vidyapith	4971	109
49.	Annamalai University	2885	107
50.	University of Mumbai	6492	107
51.	Lalit Narayan Mithila University	6857	106
52.	Sambalpur university	1759	105
53.	University of Rajasthan	1811	105
54.	Pt. Ravishankar Shukla University	2879	101
55.	Rajiv Gandhi University	607	101
56.	Mahatma Jyotiba Phule Rohilkhand University	1499	99
57.	Madurai Kamaraj University	5473	96
58.	Kurukshetra University	1391	91
59.	University of Lucknow	1924	91

60.	Kadi Sarva Vishwavidyalaya	581	87
61.	University of Kashmir	1833	86
62.	Sri Venkateswara University	5384	83
63.	Manipur University	1653	79
64.	Dayalbagh Educational Institute	1231	77
65.	Tantia University	204	75
66.	Mohan Lal Sukhadia University	839	72
67.	U P Rajarshi Tondon Open University	335	72
68.	Mizoram University	781	69
69.	Mother Teresa Womens University	1007	69
70.	Nagaland University	460	64
71.	University of Allahabad	2353	61
72.	Pt. Sundarlal Sharma Open University Bilaspur	250	59
73.	Dr. Babasaheb Ambedkar Open University	185	58
74.	Central University of Kashmir	243	57
75.	University of Kalyani	2837	55
76.	Bangalore University	2439	54
77.	Guru Nanak Dev University	1999	54
78.	Jain Vishwa Bharati University	246	53
79.	Karnataka State Womens University	270	53
80.	Chaudhary Devi Lal University	268	52
81.	Periyar University	3062	50
82.	Rai University	308	49
83.	Yashwantrao Chavan maharashtra Open University	326	49
84.	Hemwati Nandan Bahuguna Garhwal University	821	47
85.	Maulana Azad National Urdu University	347	47
86.	Integral University	576	45
87.	Jaipur National University	318	45
88.	Mangalore University	1968	45
89.	Indira Gandhi National Open University	906	44
90.	Deen Dayal Upadhyay Gorakhpur University	827	42
91.	Kavayitri Bahinabai Chaudhari North Maharashtra University	1158	42
92.	Kuvempu University	1365	42
93.	Lovely Professional University	623	42
94.	Visva Bharati	1335	42
95.	Kavikulaguru Kalidas Sanskrit University	140	40
96.	Dr. Harisingh Gour Vishwavidhyalay	2218	39

97.	Mahatma Gandhi University	3720	39
98.	The University of Burdwan	3084	38
99.	Ravenshaw University	475	37
100.	University of Jammu	1168	37
101.	Dr. C.V. Raman University	270	36
102.	Devi Ahilya Vishwavidyalaya	2276	34
103.	Osmania University	1247	34
104.	The English and Foreign Languages University, Hyderabad	775	34
105.	Tilak Maharashtra Vidyapeeth	904	32
106.	Guru Gobind Singh Indraprastha University	638	31
107.	Pondicherry University	2358	30
108.	Desh Bhagat University	246	29
109.	Dibrugarh University	915	29
110.	Guru Kashi University	307	28
111.	Mewar University	335	28
112.	Patna University	304	28
113.	Suresh Gyan Vihar University	385	27
114.	Rani Durgavati Vishwavidyalaya	354	26
115.	Solapur University	262	26
116.	Swami Vivekanad Subharti University	178	26
117.	Amity University Noida	1022	24
118.	Gulbarga University	1117	24
119.	IFTM University	297	24
120.	Jadavpur University	3637	24
121.	The Gandhigram Rural Institute	1352	24
122.	Kalinga University	148	23
123.	Davangere University	92	22
124.	Gangadhar Meher University	75	22
125.	Himgiri Zee University	28	20
126.	Guru Ghasidas University	353	19
127.	Avinashilingm Institute for Home Ecience and Higher Education for Women	697	18
128.	CHRIST University	299	18
129.	Maharaj Vinayak Global University	91	18
130.	Mangalayatan University	102	18
131.	Awadhes Pratap Singh University	822	17
132.	Berhampur University	207	17
133.	Rabindra Bharati University	331	17
134.	Seacom Skills University	77	17

135.	Central University of Haryana	87	16
136.	Hemchandracharya North Gujarat University	549	16
137.	Madhav University	224	16
138.	Bhagwant University	301	15
139.	Central University of Kerala	158	15
140.	Rabindranath Tagore University, Bhopal	234	15
141.	Barkatullah University	313	14
142.	C.U. Shah University	189	14
143.	Tamil University	109	14
144.	Teerthanker Mahaveer University	133	14
145.	Gondwana University	180	13
146.	Kannur University	869	13
147.	Sree Sankaracharya University of Sanskrit	681	13
148.	Swami Vivekanand University	80	13
149.	Sai Nath University	57	13
150.	Sanskrit University	29	13
151.	Tamil Nadu Open University	47	13
152.	Assam Don Bosco University	123	12
153.	Acharya Nagarjuna University	2152	12
154.	Central University of Jammu	107	12
155.	Childrens University	16	12
156.	Hemchand Yadav Vishwavidyalaya	32	12
157.	Nims University Rajasthan	253	12
158.	Mahatma Gandhi Antarrashtriya Hindi Vishwavidyalaya	252	11
159.	National Sanskrit University	46	11
160.	Tripura University	421	11
161.	Kakatiya University, Warangal	469	10
162.	Krantiguru Shyamji Krishna Verma Kachchh University	124	10
163.	MATS University	84	10
164.	Navrachana University	21	10
165.	Sidho Kanho Birsha University	103	10
166.	University of Science and Technology, Meghalaya	85	10
167.	University of Calicut	2166	10
168.	Central University of Punjab	166	9
169.	Goa University	1093	9
170.	Indira Gandhi National Tribal University, Amarkantak	124	9
171.	Krishna University, Machilipatnam	69	9

172.	Shri Khushal Das University	77	9
173.	Dravidian University	55	8
174.	GLA University	182	8
175.	Nehru Gram Bharati University	155	8
176.	Uttarakhand Open University	18	8
177.	Sri Padmavathi Womens University	237	7
178.	Tata Institute of Social Sciences	579	7
179.	Central University of Himachal Pradesh	118	6
180.	Himalayan Garhwal University	64	6
181.	K.R. Mangalam University, Gurgaon	82	6
182.	Maharshi Dayananda Saraswati University	198	6
183.	MIT- ADT University, Pune	34	6
184.	Sikkim University	186	6
185.	Tezpur University	855	6
186.	YBN University	30	6
187.	Baba Ghulam Shah Badshah University	93	5
188.	Babasaheb Bhimrao Ambedkar University	524	5
189.	Bankura University	22	5
190.	Indian Institute of Teacher Education	5	5
191.	Oriental University	80	5
192.	Shobhit University, Meerut	166	5
193.	Sri Chandrasekharendra Saraswathi Viswa Mahavidyala	417	5
194.	Adamas University	27	4
195.	Fakir Mohan University, Balasore	153	4
196.	Jawaharlal Nehru University	6419	4
197.	University of Gour Banga	12	4
198.	University of Hyderabad	2550	4
199.	Vardhaman Mahaveer Open University, Kota	21	4
200.	Babu Banarasi Das University	94	3
201.	CT University	24	3
202.	Gautam Buddha University	218	3
203.	Karnataka State Open University	17	3
204.	Mahapurusha Srimanta Sankaradeva Viswavidyalaya	31	3
205.	Periyar Maniammai University	156	3
206.	Rayat Bahra University	16	3
207.	Apeejay Stya University	21	2
208.	Central University of Tamil Nadu	96	2
209.	Chitkara University, Punjab	278	2

210.	Dr Shakuntala Misra National Rehabilitation University	61	2
211.	IIS (Deemed to be University)	393	2
212.	Jagannath University, Jhajjar	29	2
213.	Jai Narain Vyas University	498	2
214.	Karpagam University	298	2
215.	Lingayas Vidyapeeth	85	2
216.	Maharishi University of Information Technology	35	2
217.	Manav Rachna University	43	2
218.	Mandsaur University	38	2
219.	Monad University	36	2
220.	Sri Krishnadevaraya University	3444	2
221.	University of Kota	96	2
222.	Uttarakhand Sanskrit University	53	2
223.	Apex University Rajasthan	10	1
224.	Central University of Jharkhand	86	1
225.	Central University of South Bihar	39	1
226.	Dr. M.G.R. Educational and Research Institute	478	1
227.	GD Goenka University	96	1
228.	IIMT University, Meerut	8	1
229.	Madhya Pradesh Bhoj (Open) University	9	1
230.	Shri Ramswaroop Memorial University	128	1
231.	Sri Sathya Sai Institute of Higher Learning	105	1
232.	Vels University	760	1
233.	Vijayanagara Sri Krishnadevaraya University, Bellary	131	1
Total		376639	17400

There are 233 universities are participated in Shodhganga with MoU to INFLIBNET. From the above table it can be seen that Punjab University ranks first in producing maximum research publications in Education. Chhatrapati Sahuji Maharaj University follows the second position. Dr. Rammanohar Lohia Avadh University, Faizabad always has contributed remarkably. Sardar Patel University has made 425 theses publications. Maharaja Sayajirao University of Baroda also has made notable contributions. Shri Jagdishprasad Jhabarmal Tibarewala University has 423 theses contribution in education. Utkal University also has a mark of 419 theses in Education. Alagappa University, Maharshi Dayanand University and Veer Narmad South Gujarat University have immense contribution of theses in education. Shri Ramswaroop Memorial University, Sri Sathya Sai Institute of Higher Learning, Vels University, Vijayanagara Sri Krishnadevaraya University, Bellary, haven't performed up to the mark.

Research Objectives:

1. To understand the present scenario of doctoral theses in India in terms of number of theses uploaded in Shodhganga repository.
2. To find out university-wise number of doctoral theses in education uploaded in Shodhganga INFLIBNET.
3. To analyze the doctoral theses in education on the basis of year of completion, university and research supervisor with special reference to West Bengal.

Methodology:

The data obtained from the Shodhganga repository (up to November 2023), were considered for analysis of this study. Additionally, all education-related doctoral theses uploaded by the universities of West Bengal and submitted to the Shodhganga repository have been included. After gathering the information, the data was analyzed by using percentage technique, pie graphs, and analytical discourse methods.

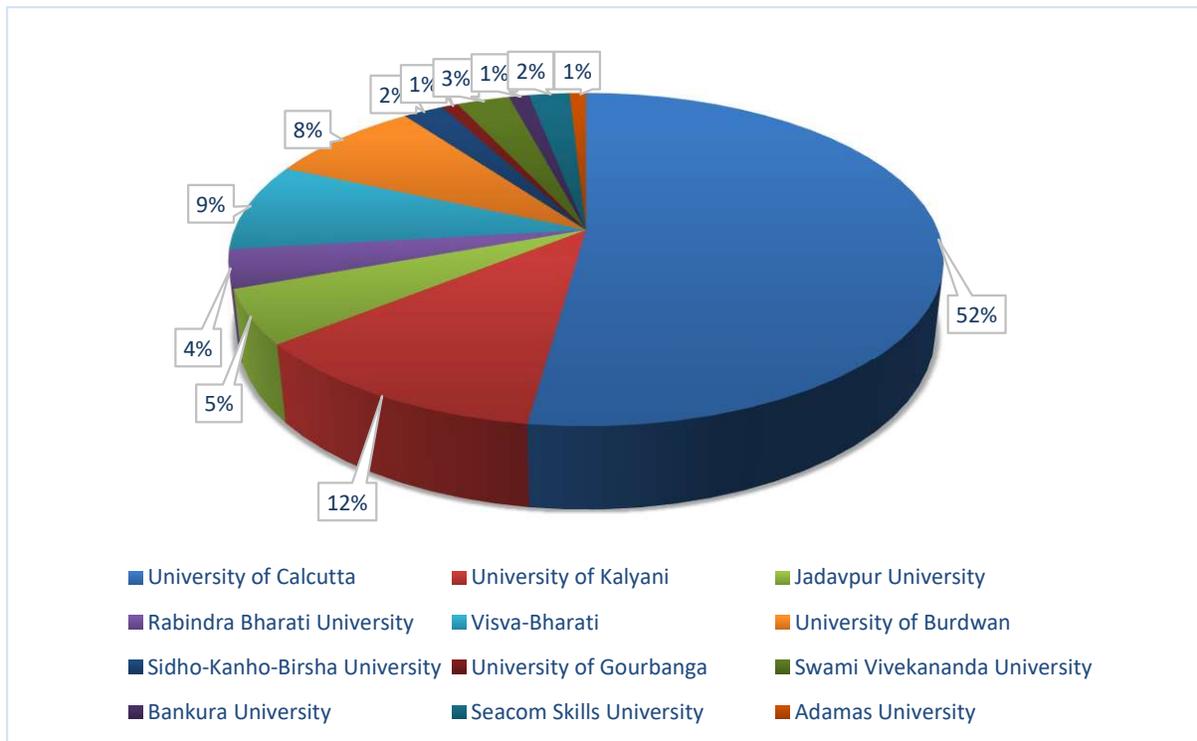
Analysis and Interpretation:

Out of total, 12 universities have been identified with doctoral theses in education. The following table shows the number of theses uploaded by the universities of West Bengal in the Shodhganga repository.

Table 2: No. of Doctoral Theses uploaded by the Universities of West Bengal

S. No.	Name of the University	No. of Theses related to Education	Percentage
1.	University of Calcutta	239	52.18
2.	University of Kalyani	55	12
3.	Visva-Bharati	39	8.51
4.	University of Burdwan	38	8.29
5.	Jadavpur University	24	5.24
6.	Rabindra Bharati University	17	3.71
7.	Swami Vivekananda University	13	2.83
8.	Sidho Kanho Birsha University	10	2.18
9.	Seacom Skills University	10	2.18
10.	Bankura University	5	1.09
11.	University of Gour Banga	4	0.87
12.	Adamas University	4	0.87
Total		458	100

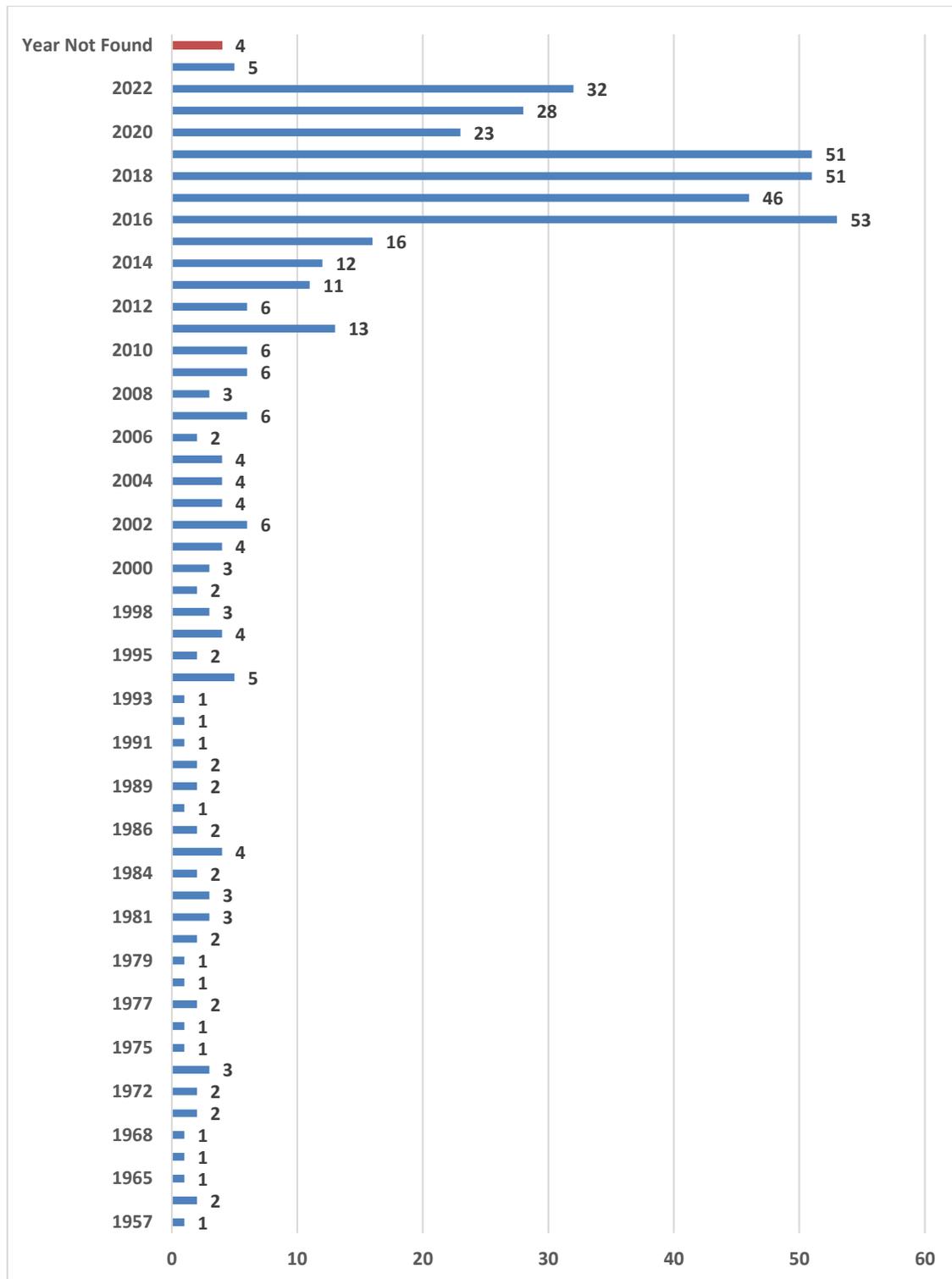
Source: Shodhganga Repository (As on 2.11.2023)



Pie Chart 1: Percentage of Doctoral theses Contributed by the Universities of West Bengal

The above table illustrates the university-wise distribution of doctoral theses in education uploaded in the Shodhganga database. We found 28 universities, and among these universities, only 458 doctoral theses in education were awarded. It is found from this study that the University of Calcutta has the highest number of doctoral theses, with 239 (52.18%). The second-highest number of doctoral theses, i.e., 55 (12%), were awarded by the University of Kalyani, followed by Visva-Bharati 39 (8.51%) and the University of Burdwan 38 (8.29%). Jadavpur University has 24 (5.24%), Rabindra Bharati University has 17 (3.71%). We may have found that the University of Gour Banga and Adamas University are awarded very small percentages of doctoral theses, i.e., 4 (0.87%). The remaining 16 universities have not uploaded doctoral theses in Sodhganga yet.

Bar Graph 1: Year-wise No. of Doctoral theses related to the field of Education



The year 1957 marks the commencement of theses found with 1 which later increased to 2 in the year 1964. It is seen that from the year 1965-68 marks a stagnation with a gradual increase from the year 1969. The year 2009 marked an upshot with an increase of 6 doctoral theses. Year 2011

with 13 upgrades in doctoral theses. The year 2016 has the maximum number of theses updates with 53 in number. With the growing years of 2018 and 2019 it was seen that there was gradual decrease in the number of theses update to 51 and tremendously drop down in the year 2023 with 5 updates. A total of 458 theses updated in the span of 58 years from 1965-2023 with gradual rise and update and stagnation from 1969.

Table 3: Decade-wise details of Completion of Doctoral theses in Education

Year	No. of Theses found
1950-1959	1
1960-1969	7
1970-1979	11
1980-1989	19
1990-1999	21
2000-2009	42
2010-2019	265
2020-2023	88
Total	454*

**4 of the theses were not been identified the year of completion.*

The above table depicts the decade-wise number of doctoral theses completed in the field of education. The years 2010–2019 marked the most significant year where the total number of theses was 265, respectively. Between the periods 1950 and 1959, it marked the foundation year for the completion of one doctoral degree. A slow and gradual increase was seen from 1960–69.

Table 4: Supervisor-wise analysis of Doctoral theses in Education

Sl. No.	Supervisor Name	No of Doctoral Theses
1.	Dr. Mita Banerjee	18
2.	Dr. Jayanta Mete	16
3.	Dr. Pranab Kumar Chakrobory	15
4.	Dr. Aditi Ghosh	12
5.	Dr. Muktipada Sinha	12
6.	Dr. Debasri Banerjee	11
7.	Dr. Debjani Sengupta	11
8.	Dr. Bishnupada Nanda	10
9.	Dr. S P Bhattacharya	10
10.	Dr. Md.Kutubuddin Halder	9

More than 150 supervisors may be observed to give their required contribution from the above table taking note of the top 10 supervisors in the field of education. It reveals the positional ranks of the doctoral theses of the notable supervisors in West Bengal with Dr. Mita Banerjee ranking first with 18 in number. Dr. Jayanta Mete and Dr. Pranab Kumar Chakraborty securing second

place with 16 and 15 in number. Dr. Aditi Ghosh and Dr. Mukti Pada Sinha follow the same order with 12 in number of the doctoral theses. Dr. Debasri Banerjee and Dr. Dejeni Sengupta with 11 in number. Dr. Bishnupada Nanda and Dr. SP Bhattacharya follow the same positional order of 10 on terms of their quality theses update

Conclusion:

A number of Universities in West Bengal have already set-up their institutional and ETD repositories using either DSpace or other OAI-PMH compliant Institutional Repository software. A platform like Shodhganga serves as this positive tool which provides universal accessibility to Indian theses and dissertation keeping minimum error of duplication and repetition with an intention of intuitive interface. The searching and browsing of the research in such a repository platform would add to downloading of the available materials. It would be possible for universities having sufficient network and computing to participate and update quality research uploads. Year wise updates in theses would demand more clarity and finding out the plausible factors which led to minimum upload in Shodhganga. There needs to be more involvement of the supervisors in the analysis of the theses. Apart from researchers it should be kept in mind the accessibility to the internet specifically uploading on INFLIBNET making it a universal access. A control check on plagiarism and duplication should be considered to develop that universal standard and quality. Involvement of more eminent researchers with in depth study keeping abreast with the innovations and demand of the study.

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