

University of Nebraska - Lincoln

DigitalCommons@University of Nebraska - Lincoln

---

Library Philosophy and Practice (e-journal)

Libraries at University of Nebraska-Lincoln

---

2021

## Contribution of Electronic Theses and Dissertations (ETDs) by the Central Universities of Northeast India to the Shodhganga Project of INFLIBNET: An Evaluative Study

Ankita Saloi  
ankitasaloi@gmail.com

Follow this and additional works at: <https://digitalcommons.unl.edu/libphilprac>



Part of the [Library and Information Science Commons](#)

---

Saloi, Ankita, "Contribution of Electronic Theses and Dissertations (ETDs) by the Central Universities of Northeast India to the Shodhganga Project of INFLIBNET: An Evaluative Study" (2021). *Library Philosophy and Practice (e-journal)*. 4825.

<https://digitalcommons.unl.edu/libphilprac/4825>

**Contribution of Electronic Theses and Dissertations (ETDs) by the Central Universities of Northeast India to the Shodhganga Project of INFLIBNET: An Evaluative Study**

**By**

**Ankita Saloi**

**Librarian, St. Joseph's School, Azara, Guwahati-17, Assam, India**

**Email: ankitasaloi@gmail.com**

**Abstract**

The present study attempts to evaluate the contributions made by the central universities of Northeast India to the open access repository of Shodhganga by INFLIBNET. Out of total 10 central universities of Northeast India, 9 Universities have already signed with MoU with Shodhganga repository and all are contributing their theses and dissertations to this project. North Eastern Hill University (NEHU) made the first initiative to signed MoU with Shodhganga and it has the highest numbers of 2,093 contributions in the repository and ranked 1st among all the central universities of Northeast India. Department of Education of North Eastern Hill University (NEHU) has the highest numbers of contribution in the repository of Shodhganga by INFLIBNET. English was the most preferred language for the theses and dissertations of the central universities of Northeast India.

**Keywords: Electronic Theses and Dissertations (ETDs), Shodhganga, INFLIBNET, Central Universities, Open Access Repositories, Northeast India**

**1. Introduction**

Theses and dissertations are the rich and unique source of information, often it is the only source of research work that does not find its way into different publication channels. Theses and dissertations remain an un-tapped and under-utilized asset, leading to unnecessary duplication and repetition that, in effect, is the anti-theses of research and wastage of huge resources, both human and financial. These are one of the most important documents for scholarly information with minimum chance of availability among the public. But, Due to the lack of availability, the contents and information of these documents remains unexplored. Here the needs of Electronic Theses and Dissertations (ETDs) were raised.

Brigham Young University (BYU) explains the concept as “An ETD is an electronic thesis or dissertation document expressed in a form simultaneously suitable for machine archives and worldwide retrieval. The document is similar to its paper predecessor, but differs in that ETDs provide a technologically advanced medium for expression. (Sengupta, 2019). 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. This would overcome serious problem of duplication of research and poor quality resulting from the "poor visibility" and the "unseen" factor in research output. The UGC Notification (Minimum Standards & Procedure for Award of M.Phil. / Ph.D Degree, Regulation, 2016) dated 5th May 2016 mandates submission of electronic version of theses and dissertations by the researchers in universities with an aim to facilitate open access to Indian theses and dissertations to the academic community world-wide. As per the Regulation, the responsibility of hosting, maintaining and making the digital repository of Indian Electronic Theses and Dissertation (called "Shodhganga"), accessible to all institutions and universities, is assigned to the INFLIBNET Centre. (Shodhganga)

## **2. Shodhganga: An overview**

"Shodhganga" is the name that was coined to denote the digital repository of Indian Electronic Theses and Dissertations set-up by the INFLIBNET Centre. The word "Shodh" originates from Sanskrit and it stands for research and discovery. The "Ganga" is the holiest, largest and longest of all rivers in Indian subcontinent. The Ganga is the symbol of India's age-long culture and civilization, ever changing, ever flowing, ever loved and revered by its people, and has held India's heart captive and drawn uncounted millions to her banks since the dawn of history. Shodhganga stands for the reservoir of Indian intellectual output stored in a repository hosted and maintained by the INFLIBNET Centre. Shodhganga provides a platform for research scholars to deposit their Ph.D. theses and make it available to the entire scholarly community in open access. The repository has the ability to capture, index, store, disseminate and preserve ETDs (Electronic Theses and Dissertations) submitted by the researchers. Shodhganga replicates academic structure of each University in terms of Departments/ Centers/ Colleges each University has to facilitate ease of navigation. This structure facilitates research scholars from universities to deposit their theses in the respective Department / Centre / College. (<https://shodhganga.inflibnet.ac.in/>)

### 3. Central Universities of Northeast India

Table 1 lists all the central universities of Northeast India with their year of establishment and URL of the University website. There are total 10 numbers of central universities in the Northeast India. Except Assam and Manipur, each states of Northeast India are having 1 central university where as Assam and Manipur both are having 2 central universities.

**Table 1: Central Universities of Northeast India**

States	Name of the Universities	YoE	Abbreviation Used	URL of the University Website
Arunachal Pradesh	Rajiv Gandhi University	1984	RGU	<a href="https://www.rgu.ac.in/">https://www.rgu.ac.in/</a>
Assam	Assam University	1994	AU	<a href="http://www.aus.ac.in/">http://www.aus.ac.in/</a>
	Tezpur University	1994	TU	<a href="http://www.tezu.ernet.in/">http://www.tezu.ernet.in/</a>
Mizoram	Mizoram University	2001	MZU	<a href="https://mzu.edu.in/">https://mzu.edu.in/</a>
Meghalaya	North Eastern Hill University	1973	NEHU	<a href="https://www.nehu.ac.in/">https://www.nehu.ac.in/</a>
Manipur	Manipur University	1980	MU	<a href="https://www.manipuruniv.ac.in/">https://www.manipuruniv.ac.in/</a>
	Central Agricultural University	1993	CAU	<a href="https://www.cau.ac.in/">https://www.cau.ac.in/</a>
Nagaland	Nagaland University	1994	NU	<a href="https://nagalanduniversity.ac.in/English/">https://nagalanduniversity.ac.in/English/</a>
Sikkim	Sikkim University	2006	SU	<a href="https://cus.ac.in/index.php/en/">https://cus.ac.in/index.php/en/</a>
Tripura	Tripura University	1987	TRU	<a href="https://www.tripurauniv.ac.in/">https://www.tripurauniv.ac.in/</a>

**YoE: Year of Establishment**

### 4. Related works

**Baro et al. (2014)** in their study investigated the extent of adoption of electronic theses and dissertations in university libraries in Nigeria. The main objectives of their study were to find out the status of digitization of theses and dissertations in Nigeria, to know the benefits of ETDs perceived by the librarian and problems faced during the time of digitization. Their study revealed that digitization of theses and dissertations were first started in 1980 and 1995 at the University of Jos and OAU in Nigeria. It emerged that only a few university libraries have embraced digitization of theses and dissertations in Nigeria. Though many challenges were faced during the time of digitization such as low internet connection, lack of fund, lack of skilled professionals etc, this study also revealed many benefits of ETDs to the university library such as improvement of university ranking and visibility, saved space, preservation

for the future etc. **Sengupta (2019)** evaluated the contributions of ETDs by the state universities of Maharashtra in the open access repository of Shodhganga by INFLIBNET. In the study, the author found that out of 12 universities, though 11 Universities signed MoU for Shodhganga, only 8 universities contributed ETDs to the repository till the date of data collection. Savitribai Phule Pune University (Pune), Dr.Babasaheb Ambedkar Marathwada University(Aurangabad) and SNTD University (Mumbai) contributed highest number of ETDs in the repository. English was the most preferred language for theses and dissertations by the state universities of Maharashtra. **Sivakumaren (2019)** examined the electronic theses and dissertations submitted to the Shodhganga repository by the universities of India. He found 32000+ theses submitted by the different university of India till the date of his data collection. His study was limited only to the top 5 universities ranked by the Shodhganga project. He studied the contributions of top 5 universities to this project as well as the contribution of the top 5 departments of top 5 universities. He found that Jawaharlal Nehru University has the highest contribution followed by Anna university and Mahatma Gandhi University respectively. **Sivakumaren and Swaminathan (2020)** in their study investigated the contributions of the ETDs by the 16 state universities of Tamil Nadu, India in the project of Shodhganga by INFLIBNET. They found in their study that the 16 State Universities of Tamil Nadu in the Shodhganga repository submitted total 41870 Electronic Theses and Dissertations. Among these Universities, Anna University, Chennai and University of Madras contributed highest number of ETDs in this project. The Department of Information and Communication, Anna University and Department of Tamil Studies, Bharathidasan University, Trichy were the top two departments, which contributed more number of theses in the respective domains. it was also found that the highest number of Theses (2787, 46.79%) were contributed on the discipline “Information and Communication” by the 16 state universities of Tamil Nadu, India. **Verma, Yadav and Singh (2020)** in their study analyzed the Doctoral theses and dissertations submitted by the central universities of Northeast India in the subject Library and Information Science to the Shodhganga project of INFLIBNET. In the study, they analyzed the total 67 Ph.D. theses, which were submitted by the universities to the project from the point of view of year wise contribution, year wise Ph.D. awarded Page length etc. They found that some of the central universities of Northeast India are still not contributing their Doctoral theses in the subject domain. During the study, they found that the highest number of theses 23 (34.33%) were uploaded by Manipur University and North Eastern Hill University respectively. The highest 33 (49.25%) Ph.D.

theses were submitted on the project in the year 2015, and highest 7 Ph.D. were awarded in the year 2013.

## **5. Objectives of the Study**

The main aim of this study is to evaluate the contributions of Electronic Theses and Dissertations (ETDs) by the central universities of Northeast India to the Shodhganga project of INFLIBNET. The specific objectives are as follows:

- To find out the total numbers of central universities of Northeast India which have signed MoU (Memorandum of Understanding) with the Shodhganga project of INFLIBNET.
- Ranking of the central universities of Northeast India based on Shodhganga's ETD contribution.
- To find out the top contributing departments of the each central universities of Northeast India to the Shodhganga project of INFLIBNET.
- To analysis the contribution of the top contributing departments of the each central universities of Northeast India to the Shodhganga project of INFLIBNET.
- To evaluate the language predominance in contributed ETDs by the central universities of Northeast India.

## **6. Methodology**

Methodology adopted for this study was completely web based. To achieve the objectives of this study and to collect the required data, survey and observation method was adopted. The data were collected from the Shodhganga repository (<https://shodhganga.inflibnet.ac.in/>) by observation process on 5th of December, 2020. Collected data were grouped into different major categories for example: overall contributions, department wise contribution, language predominance of submitted ETDs etc.

## **7. Data analysis and Discussion**

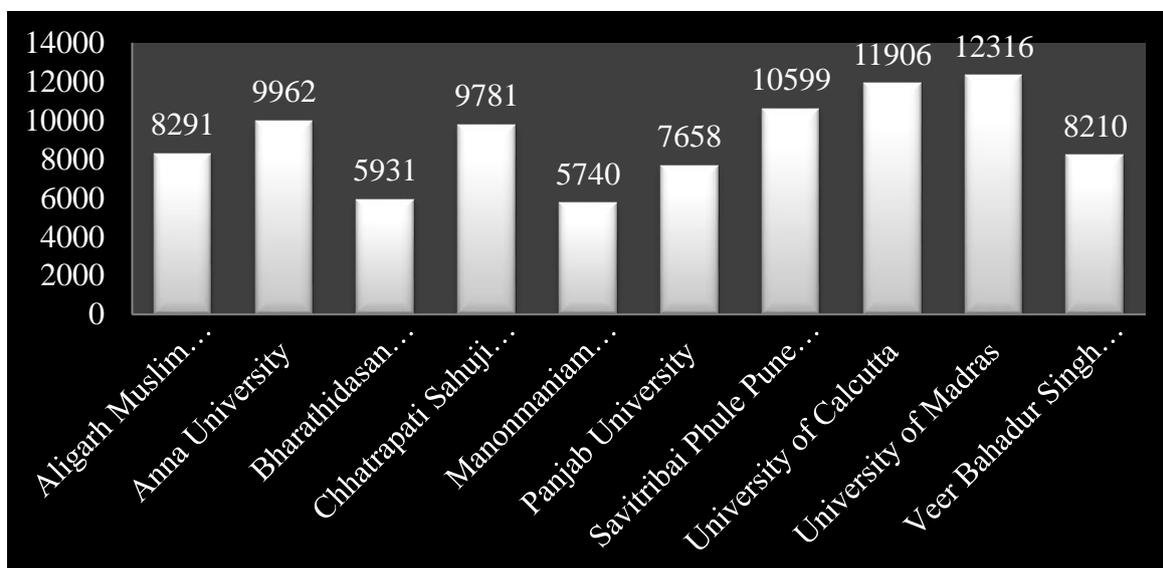
### **7.1 Top 10 contributing Universities of India**

From the table 2 and Figure 1, it is seen that University of Madras is in the 1st position by contributing 12,316 numbers of ETDs followed by University of Calcutta and Savitribai Phule Pune University are in the 2nd and 3rd position respectively by contributing 11,906

and 10,599 numbers of ETDs in the Shodhganga repository. (As of Date 5th December, 2020)

**Table 2: Top 10 contributing Universities of India**

<b>Name of the University</b>	<b>Total Numbers of Theses Uploaded</b>	<b>Rank</b>
University of Madras	12,316	1st
University of Calcutta	11,906	2nd
Savitribai Phule Pune University	10,599	3rd
Anna University	9,962	4th
Chhatrapati Sahuji Maharaj University	9,781	5th
Aligarh Muslim University	8,291	6th
Veer Bahadur Singh Purvanchal University	8,210	7th
Panjab University	7,658	8th
Bharathidasan University	5,931	9th
Manonmaniam Sundaranar University	5,740	10th



**Figure 1: Top 10 contributing Universities of India**

## 7.2 Status of the States of Northeast India Signed MoU with Shodhganga

Table 3 reflects the status of the 8 states of Northeast India registered in the ETD repository in Shodhganga which have signed MoU to INFLIBNET. As of December 2020, 24

universities of the states of Northeast India were registered in Shodhganga. Assam has the highest numbers i.e. 12 universities in this project among the 8 states of Northeast India and ranked 1st. Meghalaya, Manipur, Nagaland, Sikkim and Tripura are on the 2nd position which has 2 universities signed in this INFLIBNET project. 1 university has signed in this project from both Arunachal Pradesh and Mizoram. From the Table 3, it can also be stated that 3 universities from Assam and 1 university from both Meghalaya and Manipur were the earliest universities to make the initiative to signed MoU with Shodhganga i.e. in the year of 2011. In the year 2019, the highest numbers of 6 universities from entire Northeast India signed MoU with Shodhganga.

**Table 3: States of Northeast India Signed MoU with Shodhganga**

States	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Arunachal Pradesh	-	-	-	-	1	-	-	-	-	-	-
Assam	-	3	-	2	-	2	-	-	2	3	-
Mizoram	-	-	-	1	-	-	-	-	-	-	-
Meghalaya	-	1	-	-	-	-	1	-	-	-	-
Manipur	-	1	-	-	-	-	-	-	-	1	-
Nagaland	-	-	-	-	-	1	-	-	-	1	-
Sikkim	-	-	1	-	-	-	-	-	-	1	-
Tripura	-	-	-	1	-	-	-	1	-	-	-

### 7.3 Central Universities of Northeast India Signed MoU with Shodhganga

Table 4 displays all the central universities of Northeast India, which have already signed MoU with Shodhganga. Among the total 10 central universities of Northeast India, 9 have already participated and contributed ETDs to this INFLIBNET project is listed in the Table 4. Central Agricultural University, Manipur did not participate in the project till the date of data collection. North Eastern Hill University (NEHU) made the first initiative to signed MoU with Shodhganga among the central universities of Northeast India.

**Table 4: Status of the Central Universities of Northeast India Signed MoU with Shodhganga**

Name of the University	Date and Year of MoU Signed for Shodhganga	Name of the coordinator of the University
RGU	17th October, 2014	Dr. D. K. Pandey
AU	31st January, 2013	Dr. A. K. Sharma
TU	1st August, 2013	Dr. Mukesh Saikia

MZU	17th October, 2013	Mr. David Lalchhuanawma
NEHU	9th March, 2011	Mr. Firstborn Roy Sumer
MU	17th March, 2011	Dr. Th Khomdon Singh
NU	11th August, 2015	Dr. T Temjen
SU	1st March, 2012	Dr. Tamal Kumar Guha
TRU	21st January, 2013	Prof. Mahesh K Singh

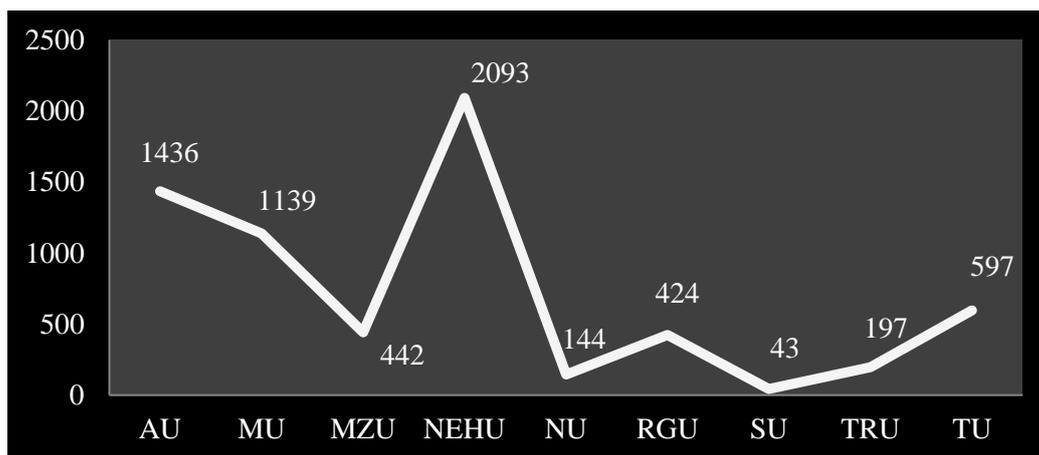
(Source: <https://shodhganga.inflibnet.ac.in/newmoredetails/mou.html>)

#### 7.4 Contribution of the Central Universities of North East India

Table 5 and Figure 2 displays that out of total 9 central universities of Northeast India, North Eastern Hill University (NEHU) is on the first position by contributing highest 2,093 ETDs to Shodhganga. The Assam University is on the second position and Manipur University is on the third position by contributing 1,436 and 1,139 numbers of ETDs respectively. Further, Tezpur University deposited 597 ETDs and ranked fourth among them, similarly Mizoram University contributed 442, Rajiv Gandhi University 424, Tripura University 197, Nagaland University 144 and ranked fifth, sixth, seventh and eighth position respectively. Sikkim university is in the lowest position among the central universities of Northeast India contributing less 43 numbers of ETDs to the Shodhganga repository.

**Table 5: Contribution of the Central Universities of North East India**

Name of the University	Total Numbers of Theses Uploaded	Share	Rank
NEHU	2,093	32.13%	1st
AU	1,436	22.04%	2nd
MU	1,139	17.48%	3rd
TU	597	9.16%	4th
MZU	442	6.78%	5th
RGU	424	6.51%	6th
TRU	197	3.02%	7th
NU	144	2.21%	8th
SU	43	0.66%	9th
<b>Total</b>	<b>6,515</b>	<b>100%</b>	



**Figure 2: Contribution of the Central Universities of North East India**

### **7.5 Top contributing Department of Central Universities of North East India**

Table 3 lists the top 3 most contributing department of each central universities of Northeast India. Department of Education of NEHU has the highest numbers of contribution in the repository of Shodhganga by INFLIBNET among all the central universities of Assam i.e. 235 (11.23%) numbers of ETDs in the Shodhganga repository followed by the Department of Botany of the same university and Department of Bengali of AU with 234 (11.18%) and 209 (14.56%) numbers of ETD contribution in the Shodhganga repository.

#### **7.5.1 Rajiv Gandhi University**

Among the total 424 numbers of contributions of RGU, Department of Education has the highest numbers of Contribution i.e. 80 (18.87%) ETDs in the Shodhganga repository and ranked first followed by Department of Geography and Department of Botany in the second and third position with 48 (11.32%) and 45 (10.61%) numbers of contributed ETDs respectively.

#### **7.5.2 Assam University**

Among the total 1,436 numbers of contributions of AU, Department of Bengali has deposited highest numbers of ETDs in the Shodhganga repository i.e. 209 (14.56%) and ranked first followed by the Department of Ecology and Environmental science and Department of Life Science in the second and third position with 140 (9.75%) and 112 (7.80%) numbers of contributed ETDs respectively.

### **7.5.3 Tezpur University**

Among the total 597 numbers of contributions of TU, Department of Chemical Sciences has the highest numbers of Contribution i.e. 110 (18.43%) ETDs in the Shodhganga repository and ranked first followed by Department of Physics and Department of Mathematical Sciences in the second and third position with 81 (13.57%) and 60 (10.05%) numbers of contributed ETDs respectively.

### **7.5.4 Mizoram University**

Among the total 442 numbers of contributions of MZU, Department of Education has deposited highest numbers of ETDs in the Shodhganga repository i.e. 37 (8.37%) and ranked first followed by the Department of Physics and Environmental science in the second and third position with 35 (7.91%) and 31 (7.01%) numbers of contributed ETDs respectively.

### **7.5.5 North Eastern Hill University**

Among the total 2,093 numbers of contributions of NEHU, Department of Education has the highest numbers of Contribution i.e. 235 (11.23%) ETDs in the Shodhganga repository and ranked first followed by Department of Botany and Department of Chemistry in the second and third position with 234 (11.18%) and 188 (8.98%) numbers of contributed ETDs respectively.

### **7.5.6 Manipur University**

Among the total 1,139 numbers of contributions of MU, Department of Life Science has deposited highest numbers of ETDs in the Shodhganga repository i.e. 184 (16.15%) and ranked first followed by the Department of English and History in the second and third position with 96 (8.43%) and 93 (8.17%) numbers of contributed ETDs respectively.

### **7.5.7 Nagaland University**

Among the total 144 numbers of contributions of NU, Department of English has the highest numbers of Contribution i.e. 26 (18.06%) ETDs in the Shodhganga repository and ranked first followed by Department of Education and Department of Geography and Resource Management in the second and third position with 21(14.58%) and 17 (11.81%) numbers of contributed ETDs respectively.

### 7.5.8 Sikkim University

Among the total 43 numbers of contributions of SU, Department of Peace and Conflict Studies and Management has deposited highest numbers of ETDs in the Shodhganga repository i.e. 9 (20.93%) and ranked first followed by the Department of Microbiology and Department of History, International Relations in the second and third position with 6 (13.95%) and 5 (11.63%) numbers of contributed ETDs respectively.

### 7.5.9 Tripura University

Among the total 197 numbers of contributions of TRU, Department of Physics has the highest numbers of Contribution i.e. 24 (12.18%) ETDs in the Shodhganga repository and ranked first followed by Department of Chemistry and Department of Mathematics in the second and third position with 23 (11.68%) and 22 (11.17%) numbers of contributed ETDs respectively.

**Table 6: Top 3 contributing Department of Central Universities of North East India**

Name of the University (Total Contribution)	Top 3 Contributing Department with their Rank		
	Rank	Department	Total No. of Contributions (Share)
RGU (424)	1st	Education	80 (18.87%)
	2nd	Geography	48 (11.32%)
	3rd	Botany	45 (10.61%)
AU (1,436)	1st	Bengali	209 (14.56%)
	2nd	Ecology and Environmental science	140 (9.75%)
	3rd	Life Science	112 (7.80%)
TU (597)	1st	Chemical Sciences	110 (18.43%)
	2nd	Physics	81 (13.57%)
	3rd	Mathematical Sciences	60 (10.05%)
MZU (442)	1st	Education	37 (8.37%)
	2nd	Physics	35 (7.91%)
	3rd	Environmental Science	31 (7.01%)
NEHU (2,093)	1st	Education	235 (11.23%)
	2nd	Botany	234 (11.18%)
	3rd	Chemistry	188 (8.98%)
MU (1,139)	1st	Life Science	184 (16.15%)
	2nd	English	96 (8.43%)
	3rd	History	93 (8.17%)
NU (144)	1st	English	26 (18.06%)
	2nd	Education	21(14.58%)
	3rd	Geography and Resource	17 (11.81%)

		Management	
SU (43)	1st	Peace and Conflict Studies and Management	9 (20.93%)
	2nd	Microbiology	6 (13.95%)
	3rd	History, International Relations	5 (11.63%)
TRU (197)	1st	Physics	24 (12.18%)
	2nd	Chemistry	23 (11.68%)
	3rd	Mathematics	22 (11.17%)

## 7.6 Language Dominance of the Contributed ETDs by the Central Universities of Northeast India

Table 7 indicates that among the total 6,515 numbers of ETDs majorities of 5,741 ETDs are in English language, which is a worldwide common language. 304 numbers of ETDs are in other languages, 73 ETDs are in Hindi Language, which is the National Language of India. 69 ETDs are in Bengali Language, 9 ETDs are in Meitei Language, 3 ETDs are in Sanskrit and 1 ETD is in both Manipuri and Urdu language. The languages of 314 numbers of ETDs are not mentioned in the Shodhganga repository.

**Table 7: Language Dominance of the Contributed ETDs by the Central Universities of Northeast India**

Name of the University	Languages									Total No.s of Contribution by the University
	English	Hindi	Bengali	Meitei	Sanskrit	Manipuri	Urdu	Other	Not Mentioned	
RGU	387	23	-	-	-	-	-	12	2	424
AU	977	39	64	9	3	1	1	179	163	1,436
TU	577	1	-	-	-	-	-	2	17	597
MZU	432	1	-	-	-	-	-	1	8	442
NEHU	1962	1	-	-	-	-	-	24	106	2,093
MU	1045	-	-	-	-	-	-	78	16	1,139
NU	143	-	-	-	-	-	-		1	144
SU	42	-	-	-	-	-	-	1	-	43
TRU	176	8	5	-	-	-	-	7	1	197
<b>Total</b>	<b>5,741</b>	<b>73</b>	<b>69</b>	<b>9</b>	<b>3</b>	<b>1</b>	<b>1</b>	<b>304</b>	<b>314</b>	<b>6,515</b>

## **8. Findings of the Study**

The key findings of this study are as follows:

- Out of total 10 central universities of Northeast India, 9 of the universities have already signed MoU with Shodhganga and all the 9 universities have the ETD contribution.
- Central Agricultural University, Manipur did not participate in the project till the date of data collection.
- North Eastern Hill University (NEHU) made the first initiative to signed MoU with Shodhganga among the central universities of Northeast India.
- Out of total 9 central universities of Northeast India, North Eastern Hill University (NEHU) is on the first position by contributing highest 2,093 ETDs to Shodhganga followed by Assam University and Manipur University.
- Department of Education of North Eastern Hill University (NEHU) has the highest numbers of contribution in the repository of Shodhganga by INFLIBNET among all the central universities of Northeast India i.e. 235 (11.23%) numbers of ETDs in the Shodhganga repository followed by the Department of Botany of the same university and Department of Bengali of Assam University.
- Majorities of 5,741 ETDs submitted to the Shodhganga repository are in English language.

## **9. Conclusion and Recommendation**

Electronic Thesis and Dissertations (ETDs) form an important source for research as well as recreation in an academic institution. It helps the researchers and academicians to know about the research works carried out in the previous years. Most importantly, it helps to avoid the duplication of research work. The greatest advantages of ETDs are promoting resource sharing, ensuring quick retrieval of information, and providing a permanent solution to the problems of space. The Universities must come forward voluntarily to deposit their research content (Thesis) in the Shodhganga project. Based on the results, the following are recommended:

- From the above study, it is found that, only a few central universities of Northeast India are actively participating and contributing their ETDs in the Shodhganga repository of INFLIBNET. Most of the universities are still lagging behind in

contributing to shodhganga. As the reasons behind less participation are not known, hence it is recommended that the university officials, LIS professionals of the universities should take the initiative to resolve this void by contributing theses to Shodhganga to increase the numbers of ETDs in the repository.

- Universities are suggested to mention the language of their research output as it is found that the language of total 314 ETDs has not been mentioned.
- Workshops or training programs should be organized highlighting the issues of copyright, choice of access etc. LIS professionals should take the opportunity to gain the knowledge on ETD repositories.
- The accreditation organizations such as NAAC, NBA, and NIRF should provide some credentials for the active and regular contribution of theses in this project while assessing the institutions.

## References

- Baro, E. E., Godfrey, V. Z., & Eze, M. E. (2014, August 26). *Electronic theses and dissertations initiatives: A survey of University libraries in Nigeria*. Taylor & Francis. Retrieved December 8, 2020, from <https://www.tandfonline.com/doi/full/10.1080/10572317.2014.936265>
- Chakravarty, R. (2019). National ETD repository evaluation using web analyzer. *International Journal of Web-Based Learning and Teaching Technologies*, 14(1), 54-68. <https://doi.org/10.4018/ijwltt.2019010104>
- Nanthini, R., & Varghese, R. R. (2018). Growth of ETDs in India: An analytical study of top contributing universities of Shodhganga. *Library Herald*, 56(1), 152. <https://doi.org/10.5958/0976-2469.2018.00014.3>
- Panda, S. K. (2016). Shodhganga – a national level open access ETD repository of Indian electronic theses: Current status and discussions. *Library Hi Tech News*, 33(1), 23-26. <https://doi.org/10.1108/lhtn-09-2015-0062>
- Rani, S. S. (2019). Electronic theses and dissertations contributed by Indian universities to Shodhganga: A case study of Osmania University, Hyderabad. *Pearl : A Journal of Library and Information Science*, 13(1), 45. <https://doi.org/10.5958/0975-6922.2019.00007.x>
- Sengupta, S. (2019). *Mapping the contributions of ETDs to SHODHGANGA by state universities in Maharashtra in lis research*. Welcome to E-LIS repository - E-LIS repository. Retrieved December 8, 2020, from <https://eprints.rclis.org/34348/>
- (n.d.). Shodhganga : a reservoir of Indian theses @ INFLIBNET. Retrieved December 8, 2020, from <https://shodhganga.inflibnet.ac.in/>
- Singh, B. P. (2020). (PDF) *Electronic thesis and dissertations (Etd) submission at shodhganga repository by Indian universities: An evaluative study*. ResearchGate. Retrieved December 8, 2020, from [https://www.researchgate.net/publication/344782594\\_ELECTRONIC\\_THESIS\\_AND](https://www.researchgate.net/publication/344782594_ELECTRONIC_THESIS_AND)

\_DISSERTATIONS\_ETD\_SUBMISSION\_AT\_SHODHGANGA\_REPOSITORY\_BY\_INDIAN\_UNIVERSITIES\_AN\_EVALUATIVE\_STUDY

- Singh, R. K., Singh, A. P., & Singh, A. K. (2018). Research trends in Field of library and information science: A case study of DLIS Aligarh Muslim University through Shodhganga repository. *Library Progress (International)*, 38(2), 158. <https://doi.org/10.5958/2320-317x.2018.00016.8>
- Sinha, M. K., & Purkayastha, N. (2018). Awareness and use of electronic theses and dissertations (ETD) with special reference to Shodhganga and Shodhgangotri of INFLIBNET : A study of scientific community library users of Assam University, Silchar. *2018 5th International Symposium on Emerging Trends and Technologies in Libraries and Information Services (ETTLIS)*. <https://doi.org/10.1109/ettlis.2018.8485256>
- Sivakumaren, K. S. (2019, October 10). (PDF) *Electronic thesis and dissertations (ETDs) by Indian universities in Shodhganga project: A study*. ResearchGate. Retrieved December 8, 2020, from [https://www.researchgate.net/publication/336374317\\_Electronic\\_Thesis\\_and\\_Dissertations\\_ETDs\\_by\\_Indian\\_Universities\\_in\\_Shodhganga\\_Project\\_A\\_Study](https://www.researchgate.net/publication/336374317_Electronic_Thesis_and_Dissertations_ETDs_by_Indian_Universities_in_Shodhganga_Project_A_Study)
- Sivakumaren, K. S., & Swaminathan, S. (2020). *Availability of electronic theses and dissertations (ETDs) of state universities of Tamil Nadu in INFLIBNET Shodhganga project: An analysis*. DigitalCommons@University of Nebraska - Lincoln. Retrieved December 8, 2020, from <https://digitalcommons.unl.edu/libphilprac/4113/>
- Thamaraiselvi, M., Manthiramoorathi, M., & Manikandan, A. (2016). Citation analysis of doctoral theses of library and information science submitted to the Alagappa University with special references of Shodhganga website. *ScieXplore: International Journal of Research in Science*, 3(1), 41. <https://doi.org/10.15613/sijrs/2016/v3i1/136473>
- Verma, M. K., Kimaryadav, S., & Singh, S. (2020). Contribution trends of library and information science theses and dissertations to Shodhganga by central universities of north-east: An assessment. *Library Herald*, 58(2and3), 54. <https://doi.org/10.5958/0976-2469.2020.00023.8>