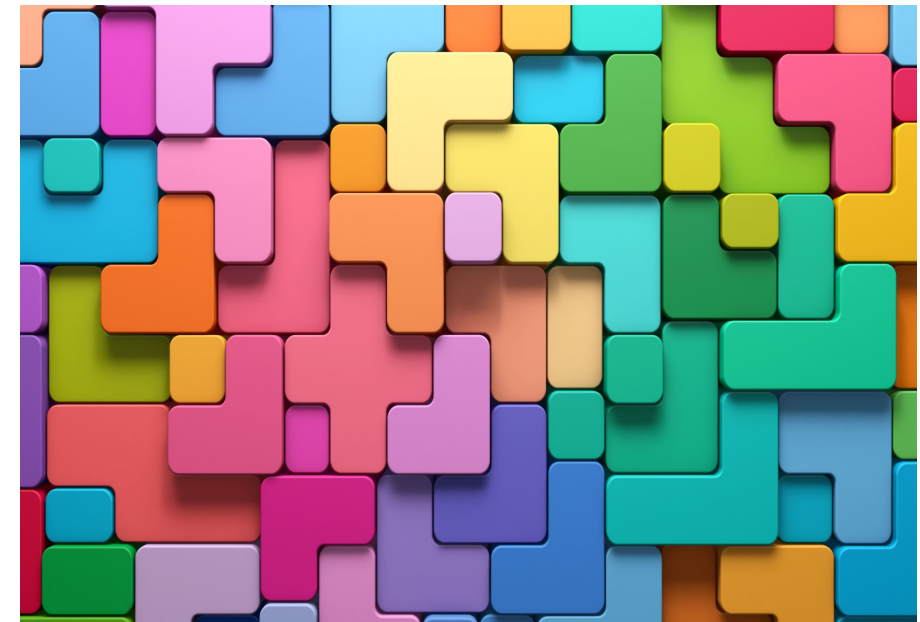


# Presentation On

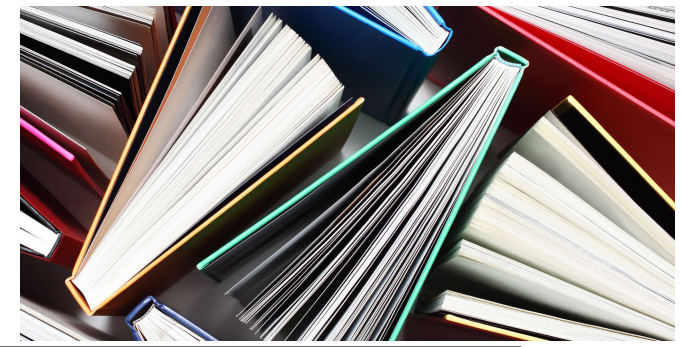
## **An Analysis of the Research Output of India's North-Eastern Region Central Universities in OER With a Special Focus on Shodhganga Repository**

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**DR. MUKESH SAIKIA**  
**LIBRARIAN**  
**TEZPUR UNIVERSITY**



# ABOUT OERs



**Open Educational Resources (OERs)** plays vital role in education system in which digitized materials are freely & legally available for sharing knowledge among the academic communities.

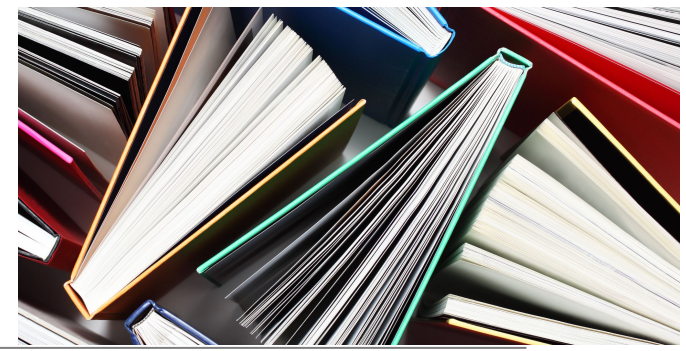


Image by BCOER Librarians CC 4.0 Taken from Bccampus

Image link : <https://bcoel.ca/resources/promote/>

# OPEN EDUCATIONAL RESOURCES(OER) INITIATIVES IN INDIA

- Government of India (GoI) initiated the **National Repository of Open Educational Resources (NROER)** in August 2013.
- **NROER** was launched as a collaborative effort between the Department of School Educational and Literary, MHRD (now Ministry of Education), the **Central Institute of Educational Technology (CIET)**, and the **National Council of Educational Research and Training (NCERT)**.
- The INFLIBET Centre, an Autonomous Inter-University Centre (IUC) under the University Grants Commission (UGC) in New Delhi, developed a project called "**Shodhganga: A reservoir of Indian Theses.**"
- Shodhganga aims to digitize and make available the theses and dissertations of various institutions, thereby maximizing the use of research resources.



# OER INITIATIVES (Contd.)

## □ NPTEL (National Programme on Technology Enhanced Learning):

- Collaboration with seven IITs and IISc.
- Offers online courses in various fields.



## □ National Council of Educational Research and Training (NCERT)

- Offers school textbooks and reference books online.
- Available in Urdu, Hindi, and English.



**NCERT**

National Council Of Educational Research  
And Training

## □ SWAYAM (Study Webs of Active-Learning for Young Aspiring Minds):

- Utilizes Open edX and Microsoft as a technical partner.
- Features partner institutions offering online courses.





# OER INITIATIVES (Contd.)

## □ e-PG Pathshala :

- Develops e-content for postgraduate programs.
- Embraces MOOCs (Massive Open Online Courses).



## □ e-Gyankosh :

- Hosts content from Indian Open and Distance Learning Institutions.



## □ National Institute of Open Schooling (NIOS):

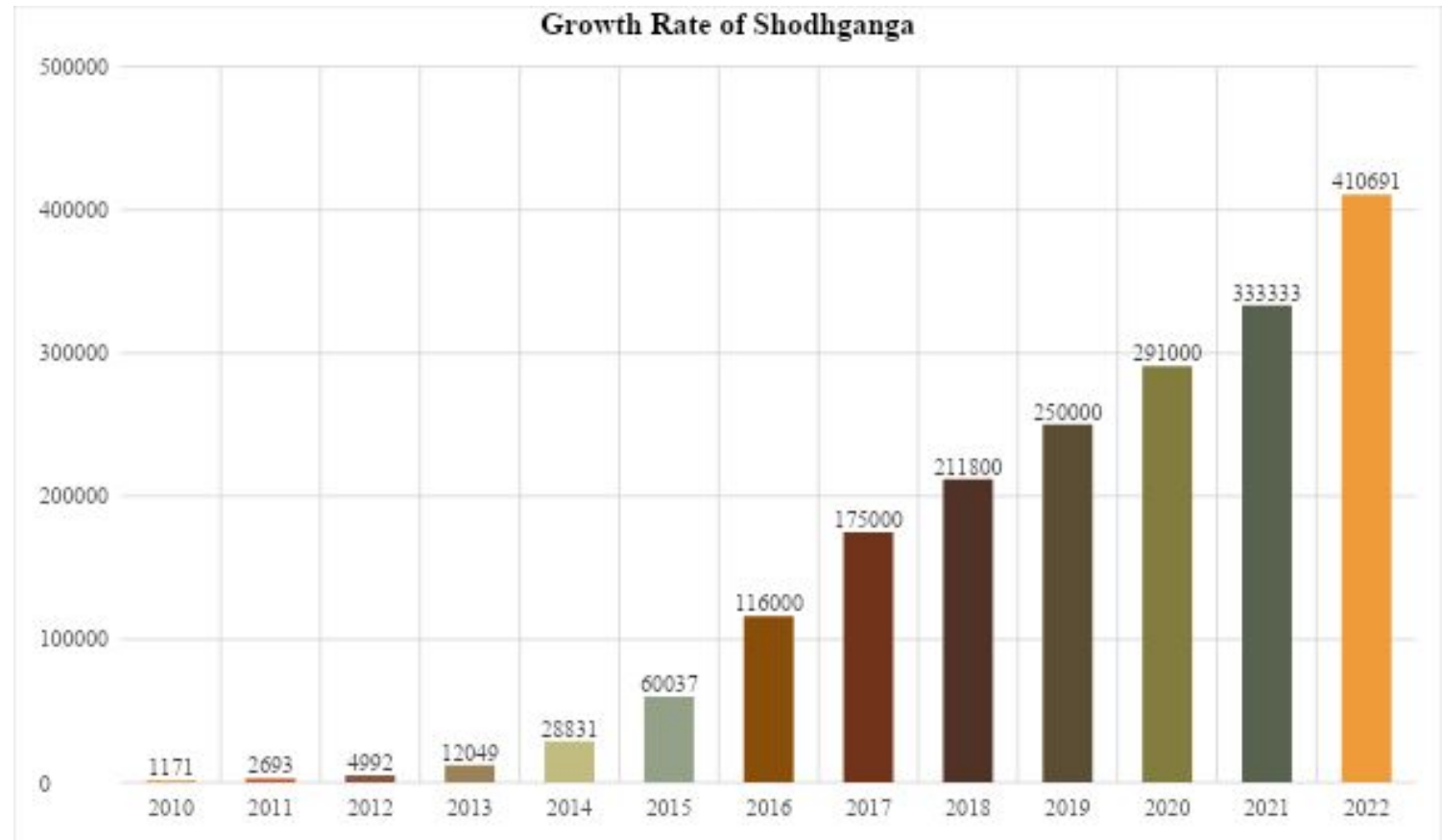
- Aims to universalize education and support social justice.
- Offers online course content for elementary and secondary levels.



# SHODHGANGA



- Shodhganga is a repository of Indian Theses offering a platform for research students and institutions to deposit their Ph.D. theses.
- Theses deposited on Shodhganga are made accessible to the scholarly community through open access under the Creative Commons License Attribution-NonCommercial-ShareAlike 4.0 International (CC BY-NC-SA 4.0).
- Currently, the repository houses over 4,86,000 theses and dissertations, all freely accessible to academic communities.



# SHODHGANGA



a reservoir of Indian theses

Top 20 Subjects in Shodhganga (4.4 Lakhs Theses)

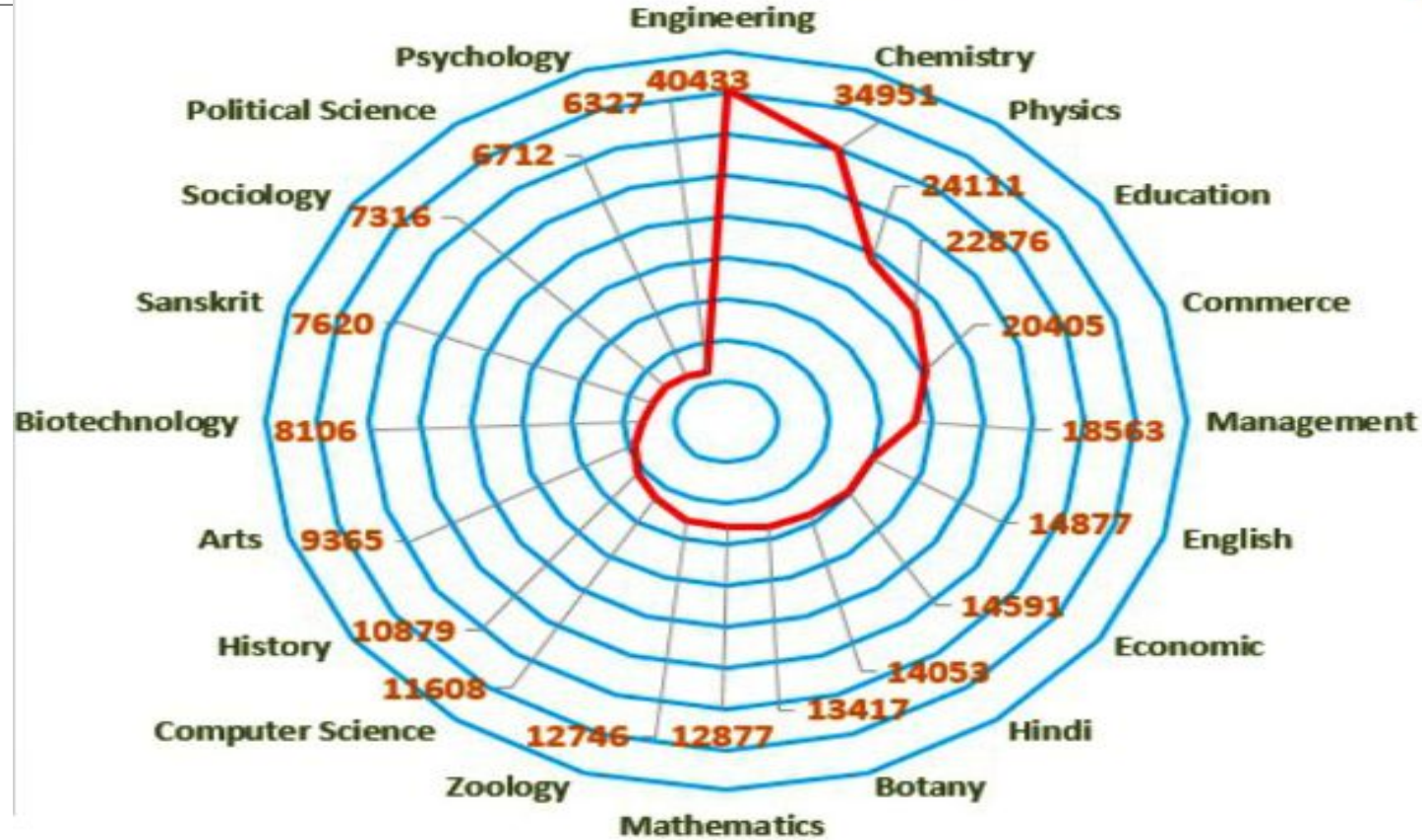


Image Source: <https://shodhganga.inflibnet.ac.in/>

# OBJECTIVES OF THE STUDY

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To ascertain the total number of documents deposited by Central Universities of North-East India in Shodhganga



To ascertain the year-wise average growth rate of documents in Shodhganga.



To determine discipline-wise contribution in Shodhganga.



To determine language-wise contribution in Shodhganga.



To determine the top 50 keywords distribution among documents.



## **MATERIAL AND METHODS**

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- The study is focused on nine Central Universities of the North-East India under the Ministry of Education (formerly MHRD), Government of India.
- Data for the study was sourced from the Shodhganga repository, collected up to December 31, 2022.
- Data analysis was conducted using MS-Excel, and for visualizing scientific data, VOSviewer software was employed.

# UNIVERSITIES IN INDIA

Types of Universities in India	Total Number
Central Universities	56
State Universities	459
Deemed Universities	127
Private Universities	430
Total	1072

## Universities of North-East India

State Universities	Central Universities	Private Universities	Deemed Universities	Total
26	11	42	2	81

**OBJECTIVE 1 : To ascertain the total number of documents deposited in Shodhganga**  
**DATA ANALYSIS & FINDINGS**

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**Profiles of Central Universities of North-East India at Shodhganga Repository**

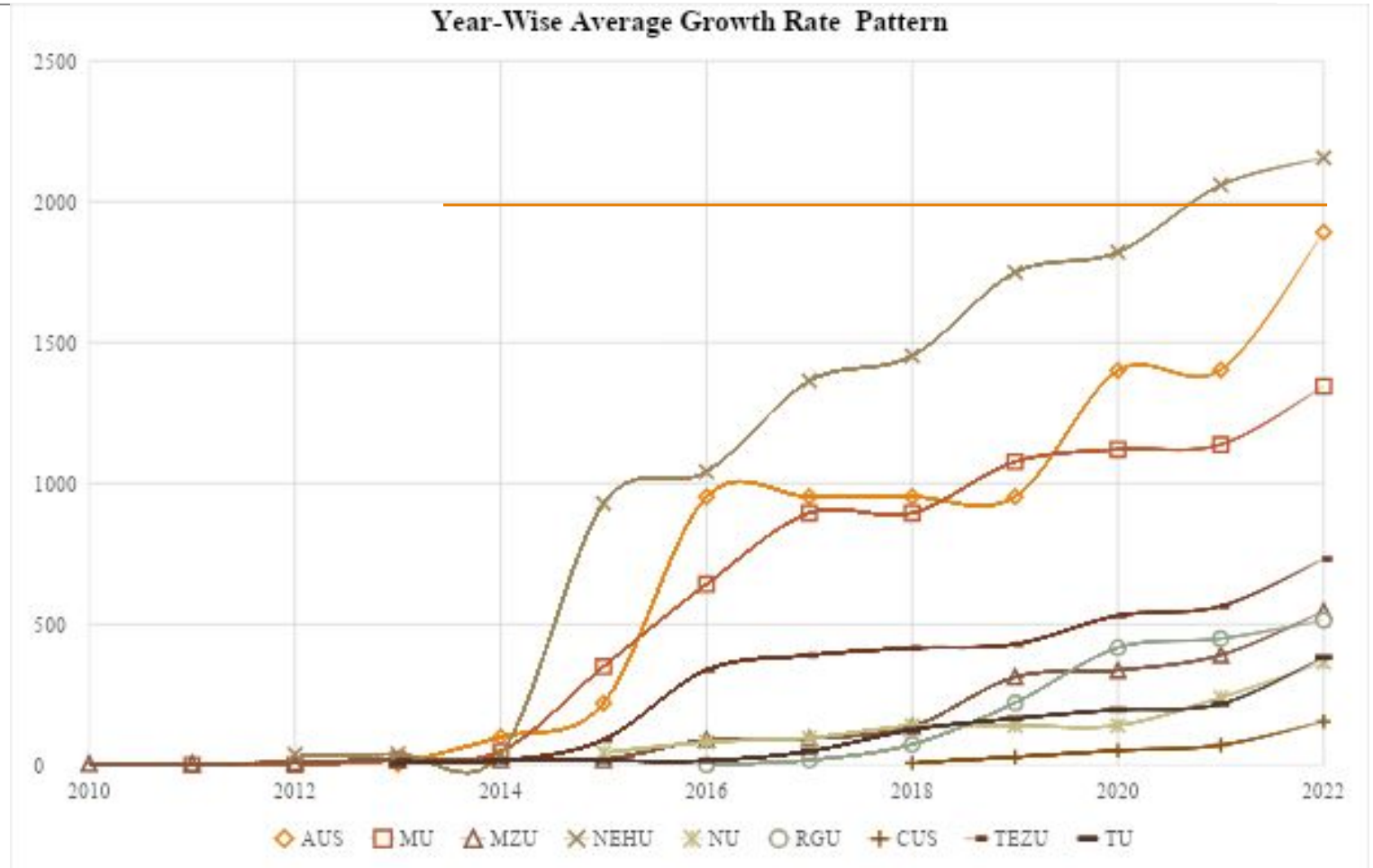
Sl. No.	Name of the university	Abbreviation	MoU Signed On	Handle URI	No. of Documents Contributed	Unique No. of Documents
1	Assam University, Silchar	AUS	31st January 2013	10603/12989	1,949	1,892
2	Manipur University	MU	17th March 2011	10603/3007	1,373	1,345
3	Mizoram University	MZU	17th October 2013	10603/1198	656	546
4	Nagaland University	NU	11th August 2015	10603/9310	365	365
5	North-Eastern Hill University	NEHU	26th November 2010	10603/5270	2,434	2,156
6	Rajiv Gandhi University	RGU	19th September 2014	10603/7764	520	514
7	Central University of Sikkim	CUS	1st March 2012	10603/191975	155	155
8	Tezpur University	TEZU	1st August 2013	10603/8988	823	732
9	Tripura University	TU	21st January 2013	10603/6594	388	383
Grand Total					8,663	8,088

The above table shows that out of the total 8,663 contributed documents, **575 documents found to be duplicate**. Further, the data also find that **NEHU** has contributed the highest number of unique documents (2,156), followed by **AUS (1,892)** and **MU (1,345)**.

## OBJECTIVE 2 : To ascertain the year-wise average growth rate of documents in Shodhganga

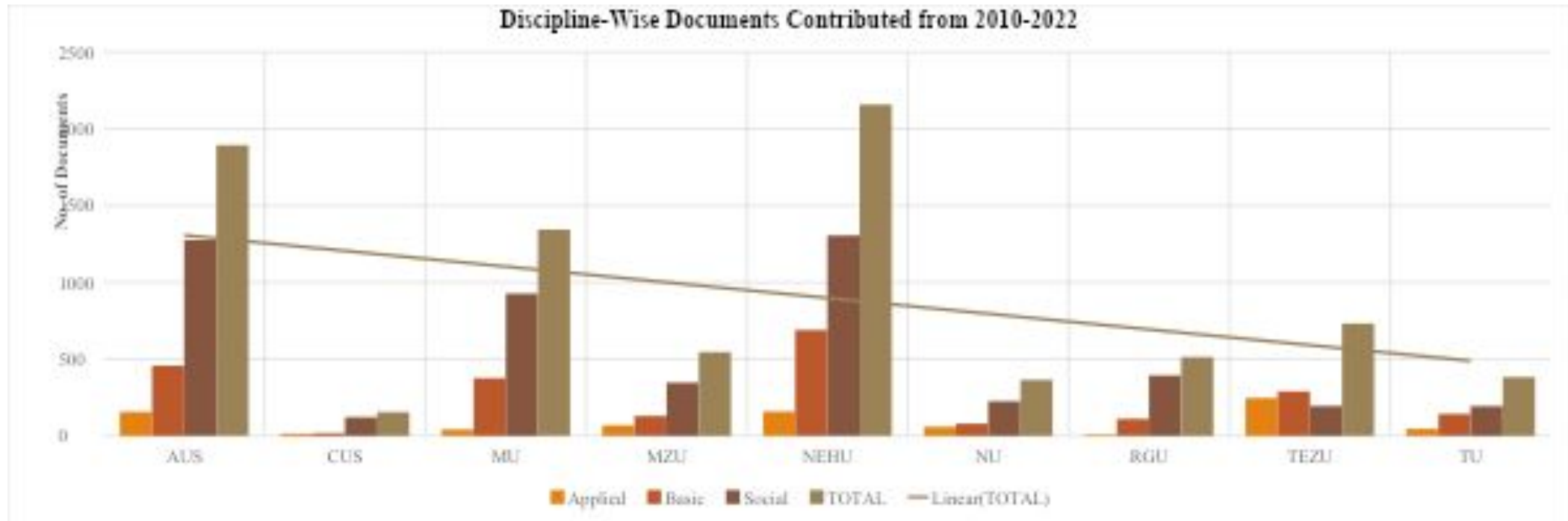
### DATA ANALYSIS & FINDINGS

- AUS (Assam University) had the highest contribution among all universities, providing 97% of the average documents in 2014.
- NEHU (North-Eastern Hill University) contributed 95.80% in 2015, NU (Nagaland University) contributed 94.44% in 2013, and MU (Manipur University) contributed 94.44% in 2017.
- AUS did not upload any documents for three consecutive years: 2017, 2018, and 2019.
- NU had gaps in document uploads in 2012 and 2018, and NEHU in 2014.



## OBJECTIVE 3 : To determine discipline-wise contribution in Shodhganga.

### DATA ANALYSIS & FINDINGS



- In the field of Social Science, NEHU contributed the highest number of documents (1,307), followed by AUS (1,277), and MU (927).
- In the field of Basic Science, NEHU also had the highest contribution with 690 documents, followed by AUS (458), and RGU (376).
- In the field of Applied Science, TEZU had the highest number of contributions with 247 documents, followed by NEHU (159), and AUS (157).



## OBJECTIVE 4 : To determine language-wise contribution in Shodhganga.

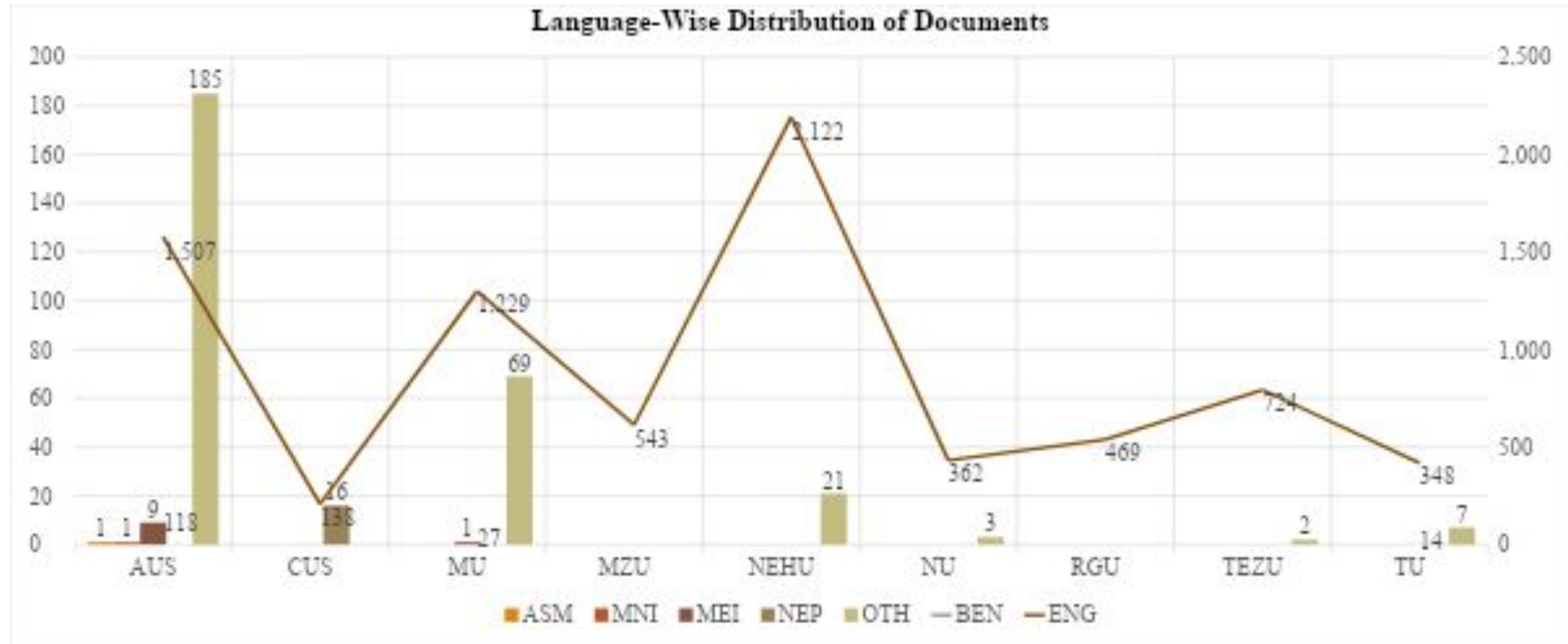
### DATA ANALYSIS & FINDINGS

Sl. No.	University	ASM	BEN	ENG	HIN	MNI	MEI	NEP	OTH	SAN	URD	ND	T
1	AUS	01	118	1,507	62	01	09		185	08	01		1,892
2	MU			138				16				01	155
3	MZU		27	1,229	11		01		69			08	1,345
4	NU			543	02							01	546
5	NEHU			2,122	02				21			11	2,156
6	RGU			362					03				365
7	CUS			469	34							11	514
8	TEZU			724	06				02				732
9	TU		14	348	12				07	02			383
	GT	01	159	7,442	129	01	10	16	287	10	01	32	8,088

ASM=Assamese, BEN=Bengali, ENG=English, HIN=Hindi, MNI=Manipuri, MEI=Meitei, NEP=Nepali, SAN=Sanskrit, URD=Urdu (ISO 639-2 Language Code), OTH=Others, ND=Not Defined, T=Total, GT=Grand Total

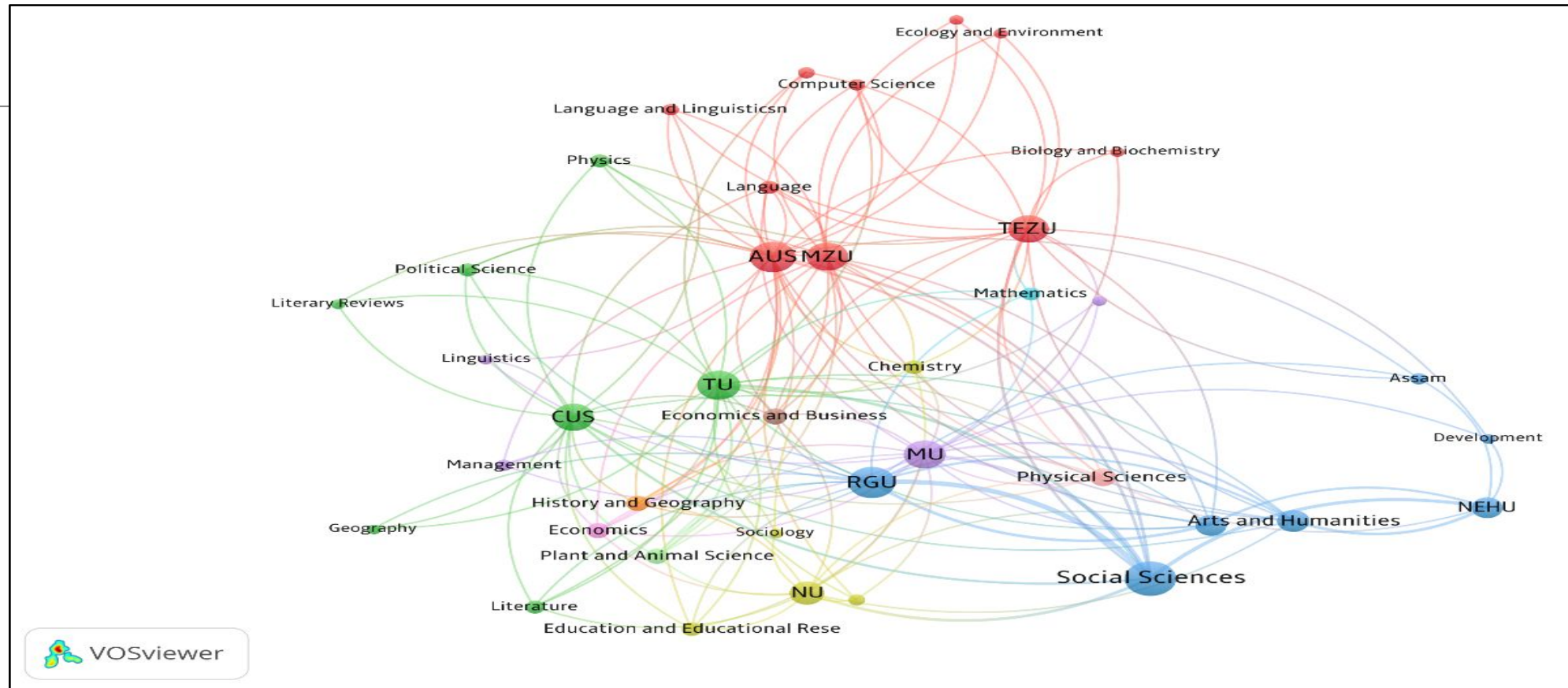
The above table shows that **in every 1,000 documents, 93 are uploaded in English** language followed by **20 documents in Bengali**, **16 documents in Hindi** and **05 documents in other regional languages**. Furthermore, it can also be seen that **40 documents in every 1000** doesn't have any specific language.

# Language-Wise Distribution of Documents



**OBJECTIVE 3 :** To determine the top 50 keywords distribution among documents.

## **DATA ANALYSIS & FINDINGS**



**Fig : Visualization map of keywords**

The top 05 popular keywords used by the 09 Central Universities are **‘Arts and Humanities’**, followed by **‘Economics and Business’**, **‘Life Sciences’**, **‘Physical Sciences’**, and **‘Social Sciences’**.

# KEY FINDINGS

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- **Memorandum of Understanding (MoU) signed with INFLIBNET Centre:**
  - All 09 Central Universities in NE-Region are part of Shodhganga.
- **Document Upload Statistics:**
  - As of 31.12.2022, 8,663 documents are uploaded.
  - Only 8,088 documents are distinctive and 575 documents are found to be duplicate.
- **Highest Contribution:**
  - North-Eastern Hill University leads with 2,156 uploaded documents.
- **Growth Rate:**
  - Assam University, Silchar recorded a remarkable 97% growth rate in 2014.
  - No document uploads in 2017, 2018, and 2019

# KEY FINDINGS(Contd.)

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- **Document Categories:**
  - Majority in the field of social sciences.
  - North-Eastern Hill University leads in Social Science and Basic Science.
  - Tezpur University excels in Applied Science.
- **Language of Documents:**
  - Predominantly in English.
  - Only one document in Assamese, Manipuri, and Urdu.
  - 319 documents categorized as 'Others'.
- **Popular Keywords:**
  - 'Arts and Humanities', 'Economics and Business', and 'Life Sciences' are the most used keywords for document uploads on Shodhganga.



## SUGGESTIONS AND CONCLUSION

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- Measures should be taken to avoid uploading duplication of theses.
- Software for regional language similarity check should be developed.
- Periodical training programs should be conducted for research scholars.
- Universities should consistently upload theses after declaration of results.
- Promote further research in regional languages with adequate financial support.

**THANK YOU**

