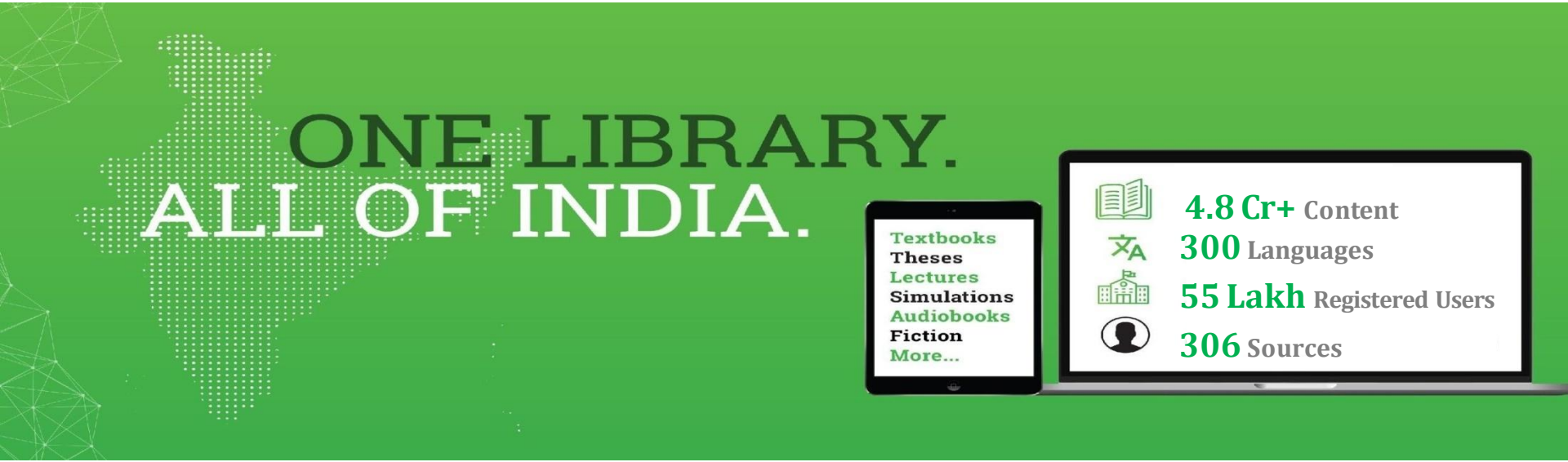
National Digital Library of India

NMEICT
National Mission on Education Through ICT

MHRD
Government of India
Ministry of Human Resource Development

NDLI User Awareness Webinar for Engineering Colleges and Polytechnics of Bihar

in collaboration with Department of Science and Technology, Govt. of Bihar



Dr. Vignesh Sornamohan
Chief Strategic and Outreach Officer

OBJECTIVES OF THE SESSION

Five Laws of
Library Science

I. Books are for
use.
2. Books are for
all; or, Every
reader his book.
3. Every book its
reader.
4. Save the time of
the reader.
5. A library is a
growing organism.

– S.R. Ranganathan

WHY NDLI?

WHO IS THIS FOR?

WHAT KIND OF CONTENT?

HOW TO ACCESS NDLI?

WHAT IS THE DIFFERENCE BETWEEN GOOGLE AND NDLI?

HOW TO OPERATE NDLI CLUB?

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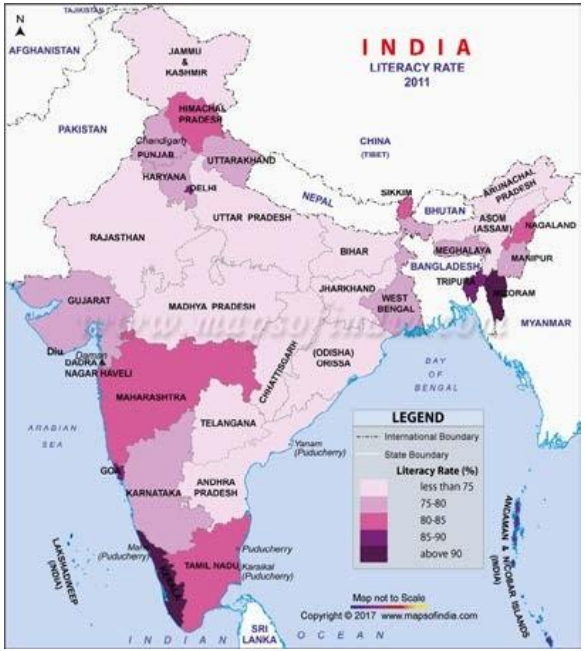
Why NDLI?



With a million people turning 18 every month India needs 6 Universities and 270 colleges monthly to bridge the education divide

Need effective use of Digital technology to handle the situation

National Digital Library of India can provide a disruptive innovation designed to overcome this challenge

Build up **National Digital Library of India** as a National Knowledge and Cultural Asset:

The key driving force for Education, Research, Cultural \Heritage, Innovation, and Knowledge-sharing in India

Open & Inclusive

ONE LIBRARY
ALL OF INDIA

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Why NDLI?

- Reduction in financial and human resources for libraries
- Lack of additional physical infrastructure for stacking resources
- Accessing same resources by multiple persons at the same time
- Missing/ hidden/ damaged resources
- Democratize Education

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NDLI dedicated to the Nation on 19th June, 2018

By Shri Prakash Javadekar
the then Hon'ble Minister of HRD

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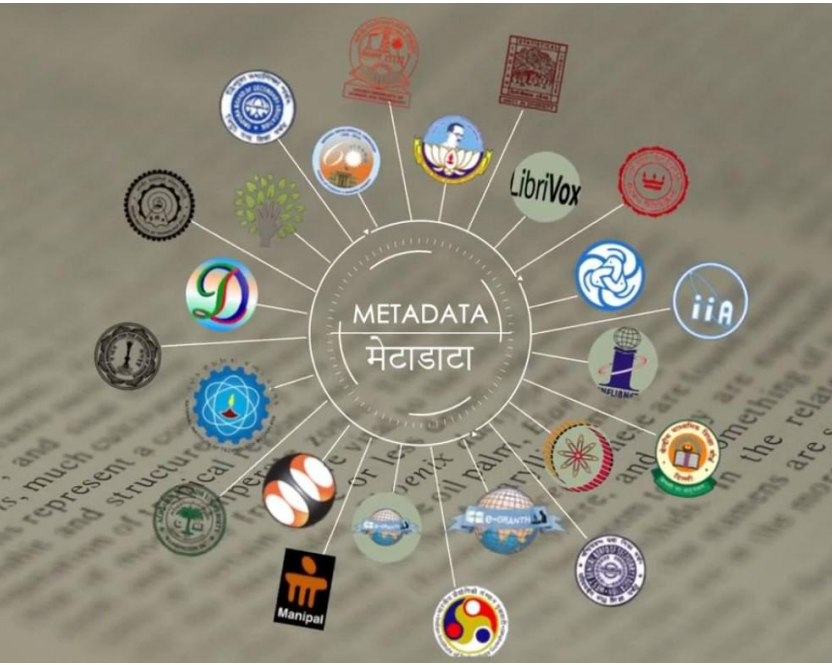
METADATA: THE HEART OF NDLI



- Metadata is primarily textual information relating to content
- It includes information that enables users to identify, discover, search, browse, interpret, or manage content
- Includes hyperlinks that direct users to content on the source
- May include an expressive description of the content

NOTE: NDLI does not store contents, it only ingests metadata for Search & Browse. The content (Full-text) is delivered from Source.

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USE MODELS

Physically Challenged

Researchers

Learners

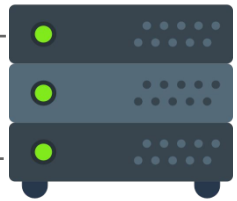
Professionals

Content Access

Web Content Harvesting

Institutional Digital Repositories

Web Content



NDLI

REPOSITORY

Content Contribution

Contributing Institutions

Learning Management System

Educators

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Some Current Content Contributors

Total: 306

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Content Available

Computer Science, Information & General Works	1,00,13,736
Philosophy and Psychology	5,44,000
Religion	2,08,218
Social Sciences	45,77,197
Language	1,09,431
Natural Sciences & Mathematics	84,42,659
Technology	1,04,95,284
The Arts; Fine & Decorative Arts	4,52,223
Literature & Rhetoric	7,93,224
History & Geography	6,14,800

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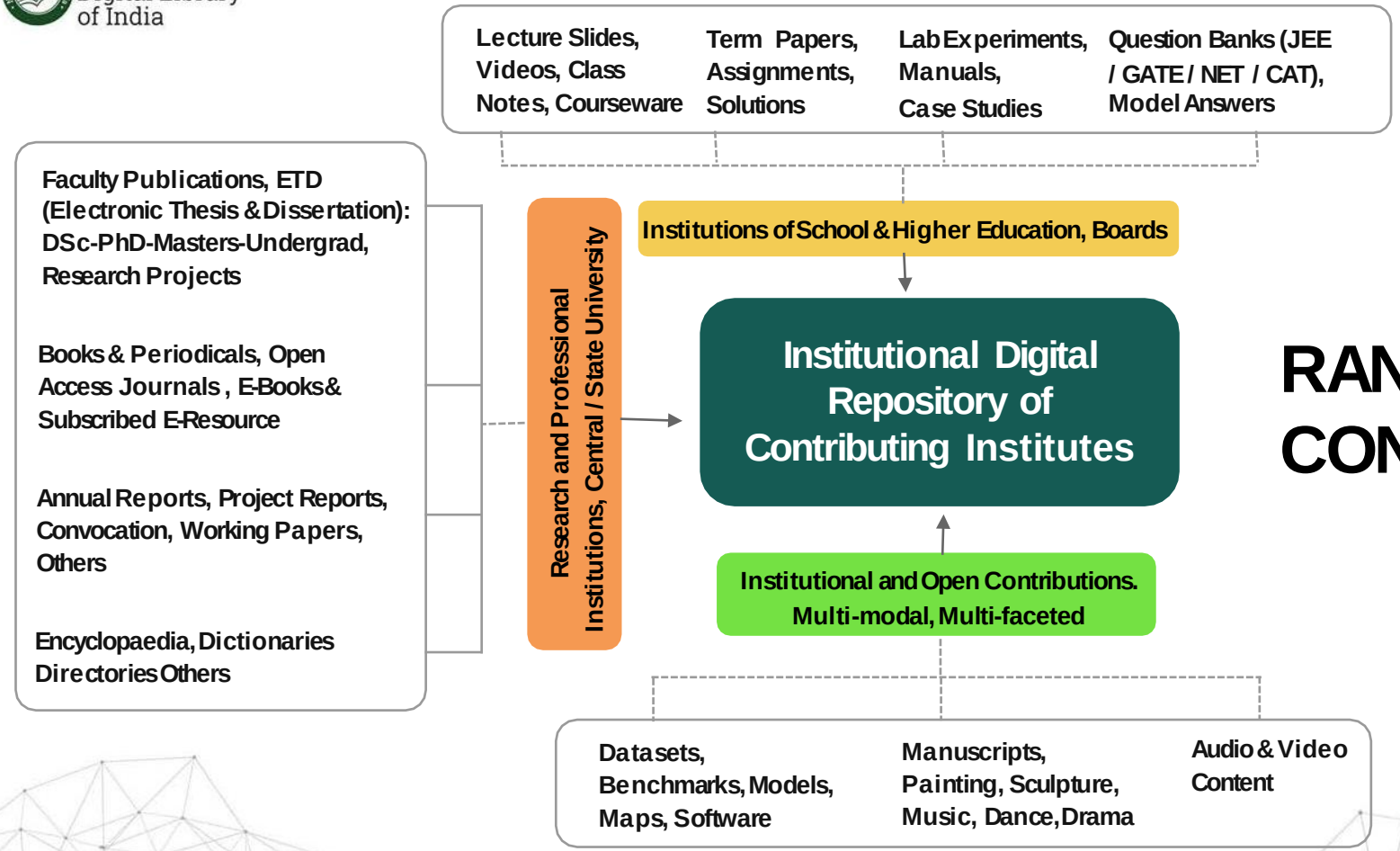
RANGE OF CONTENTS



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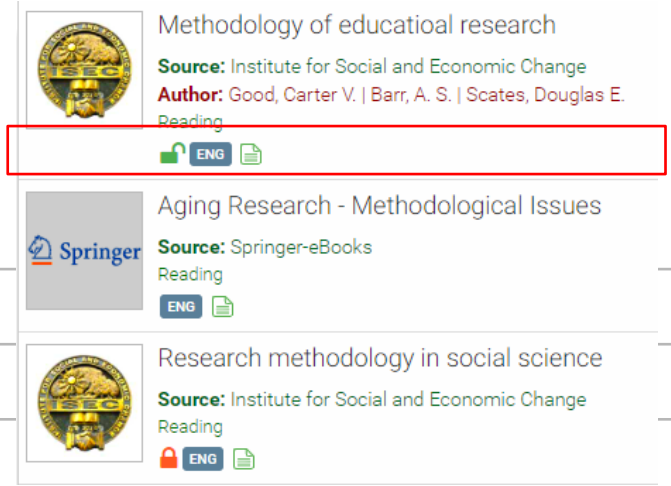
ACCESS OPTIONS



	Open
	Full-text available to all (Example: NCERT)
	NDL Users
	Full-text available through NDL, *not directly* from Source (Example: South Asia Archive)
	Limited Access
	Part of text available but full-text requires authorization by Source authority (Example: IISER, Bhopal)
	Subscribed
	Full-text available from institutions that have subscribed to the Source (Example: Springer)
	Restricted
	Full-text access requires authorization by Source authority and separate login to the Source (Example: IIT Jodhpur)

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Resource Type

Learning Resource Type	Content Count
Article	3,01,75,694
Book	64,00,800
Report	12,15,028
Notes	11,45,919
Law Act	8,79,762
Law Judgement	8,70,213
Technical Report	7,15,512
Thesis	6,54,564
Historical Record	5,33,039
Video Lecture	3,77,933

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Access Options-wise Content

Open	2,76,10,364
Subscribed	95,85,693
NDLI Users	77,94,096
Limited	31,95,868
Authorized	4,22,651

More than 3.54 crore resources (i.e. around 73%) are free to use for educational and research purposes.

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WHO IS THIS FOR?

The NDLI platform is for

ALL learners.

SCHOOL

COLLEGE

PROFESSIONALS

ACADEMICS/ RESEARCHERS

EDUPRENEURS

LIFELONG LEARNERS

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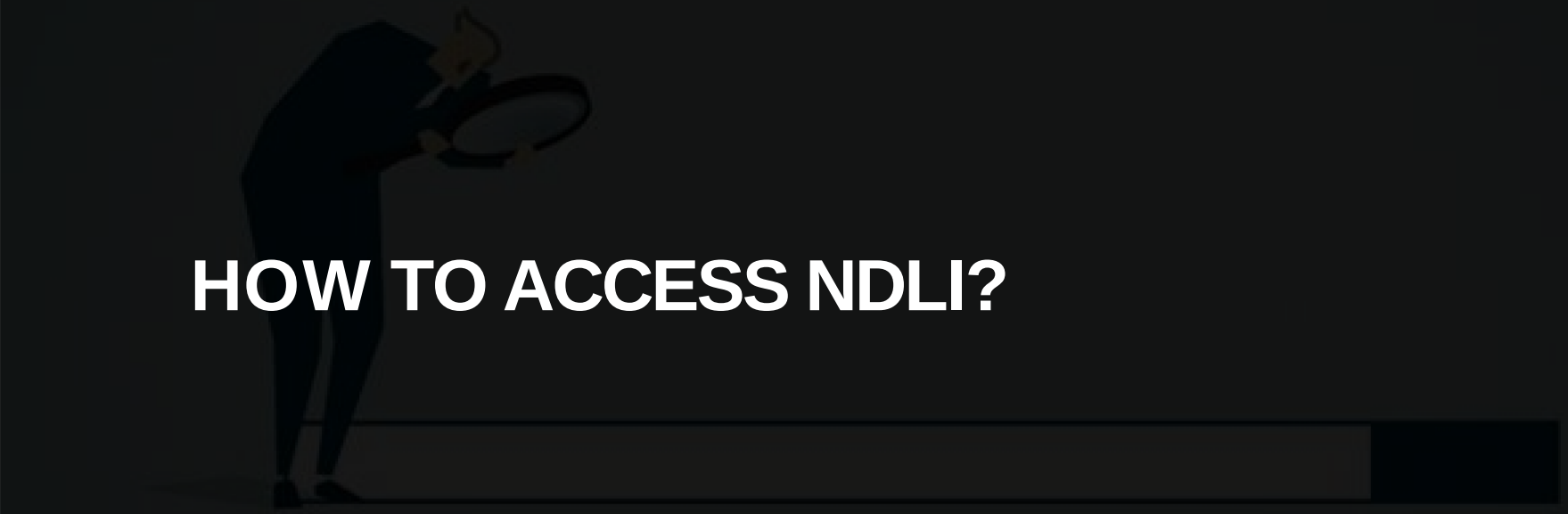

HOW TO ACCESS NDLI?

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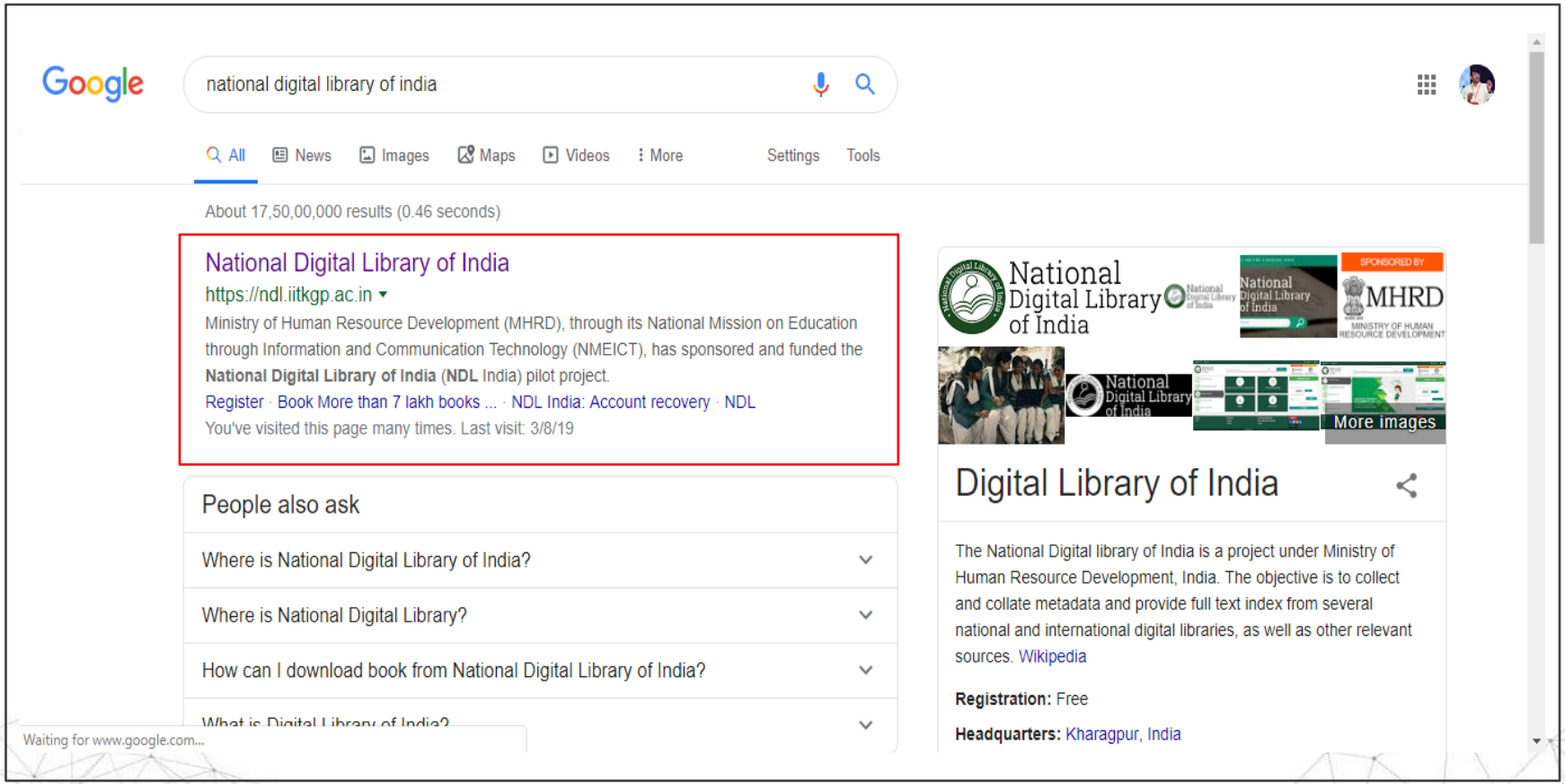
https://ndl.iitkgp.ac.in or https://ndl.gov.in



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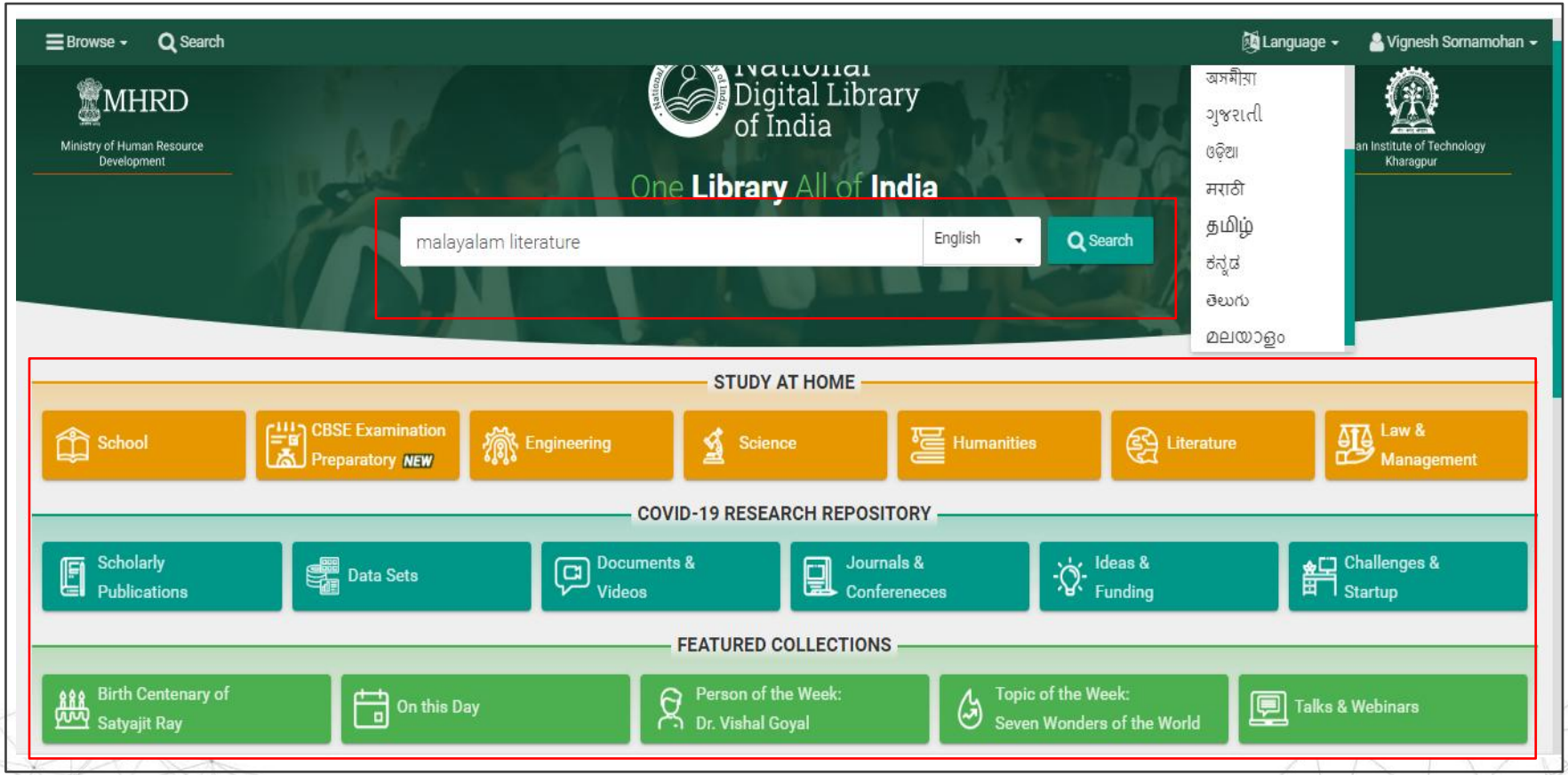
https://ndl.iitkgp.ac.in or https://ndl.gov.in



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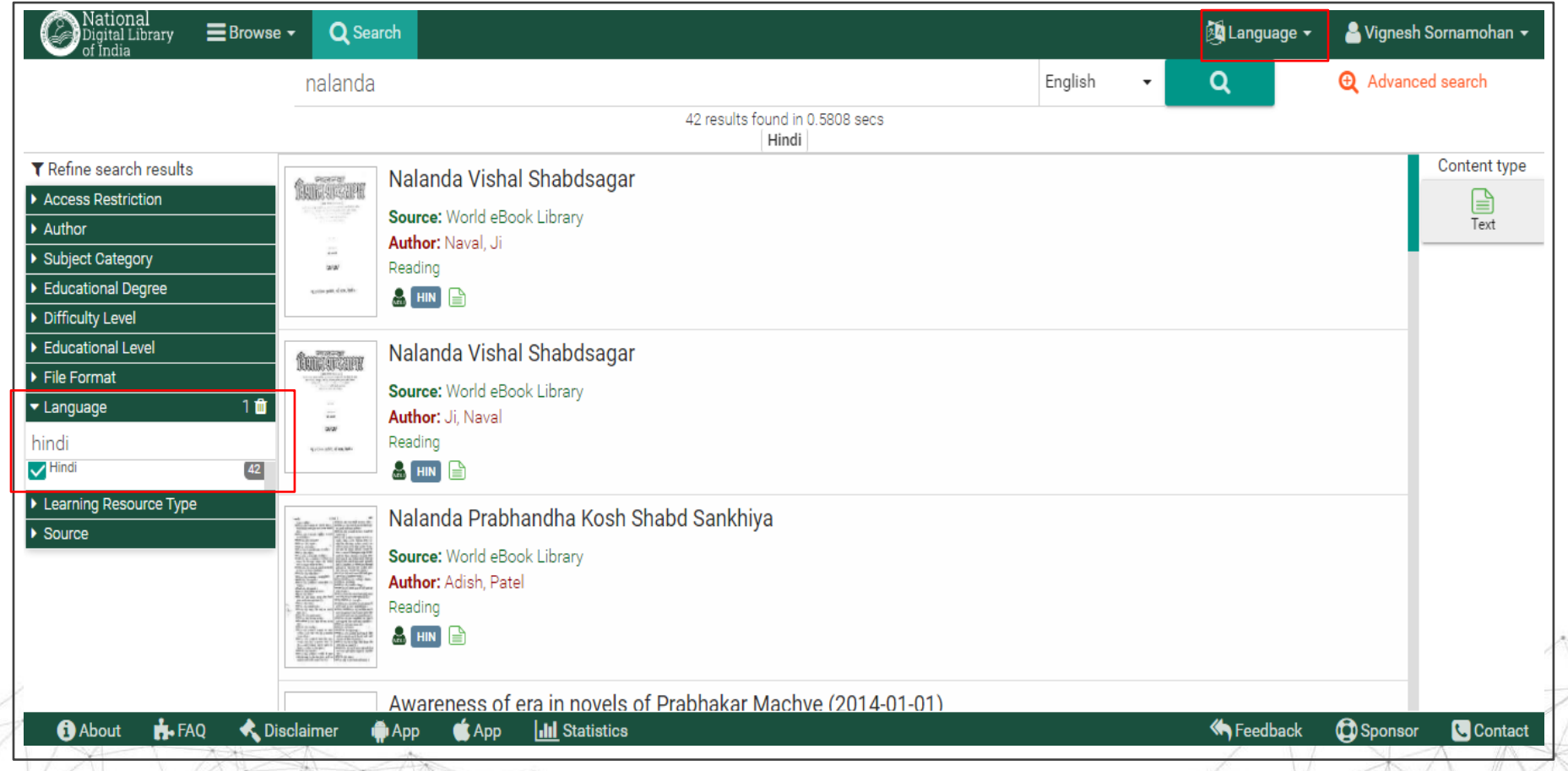
REFINE SEARCH: By Access Restriction and Source



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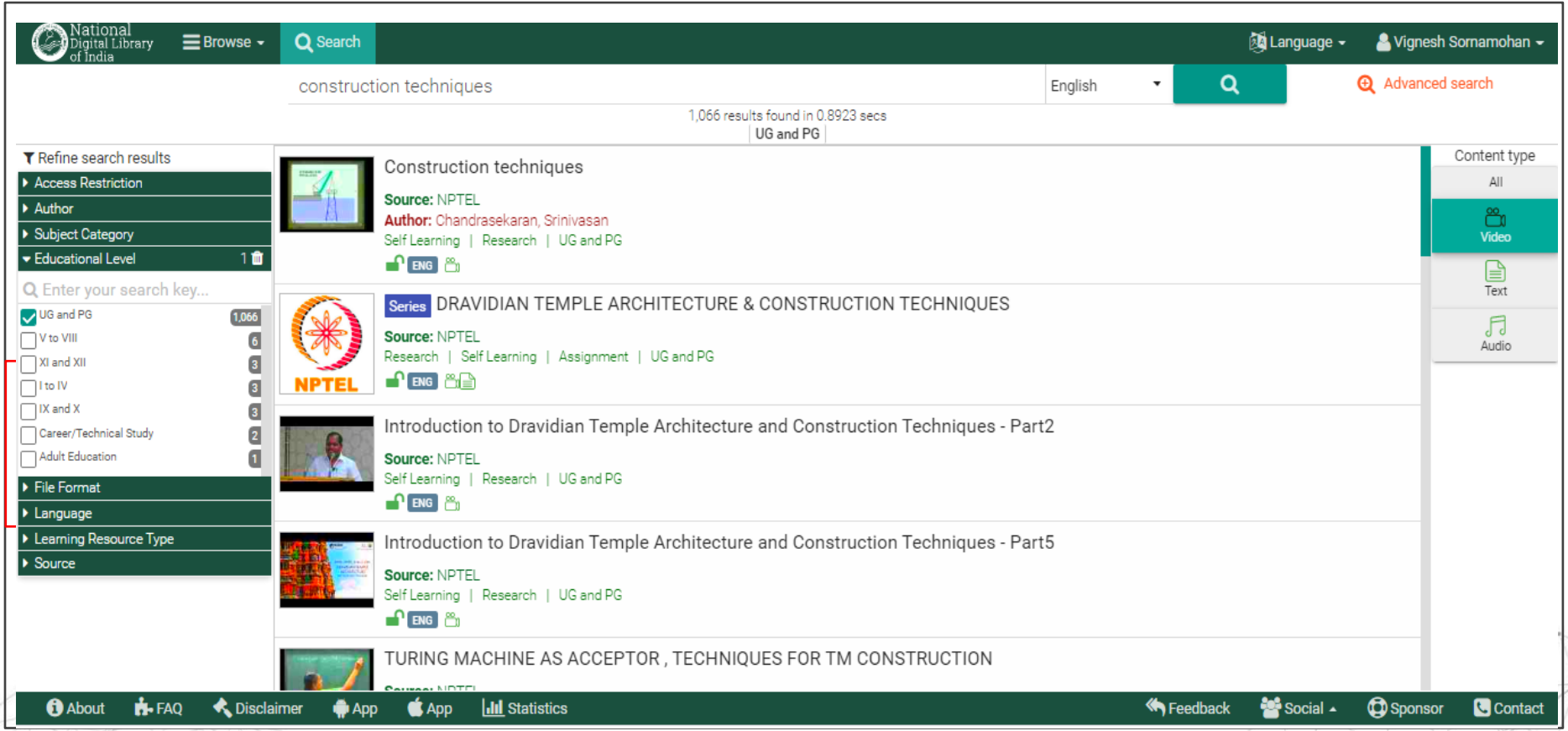
REFINE SEARCH: By Source



REFINE SEARCH: By Access Restriction

National Digital Library of India

Browse | Search | Corona Outbreak: Study from home | Language | Vignesh Sornamohan

engineering mechanics | English | Advanced search

862 results found in 0.4232 secs

Iyengar, Sudarshan

Refine search results

- Access Restriction
- Author 1
  - Enter your search key...
  - Iyengar, Sudarshan 862
  - Chandrasekaran, Sriniv... 627
  - Tiwari, Nachiketa 471
  - Aditya, K. Jagannatham 449
  - Bhattacharya, Shantanu 412
  - Sengupta, Indranil 365
  - Kamakoti, V. 355
  - Singh, Inderdeep 340
  - Arun, K. Tangirala 321
- Subject Category
- Educational Level
- Language
- Learning Resource Type
- Source

Link Prediction

Source: NPTEL
Author: Iyengar, Sudarshan
Self Learning | Research | UG and PG
ENG

Coding the Fourth Big Idea - Cascades and Clusters

Source: NPTEL
Author: Iyengar, Sudarshan
Self Learning | Research | UG and PG
ENG

Hubs and Authorities

Source: NPTEL
Author: Iyengar, Sudarshan
Self Learning | Research | UG and PG
ENG

PageRank Explained

Source: NPTEL
Author: Iyengar, Sudarshan
Self Learning | Research | UG and PG
ENG

Power Law emerges in WWW graphs

Source: NPTEL

Content type
All
Video

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REFINE SEARCH: By Subject Category, Access Restriction and Source

National Digital Library of India | Browse | Search | Language | Vignesh Sornamohan

artificial intelligence | English | Advanced search

64 results found in 0.9207 secs

Computer science, i... | Technology | MIT OpenCourseWare

Refine search results

- Access Restriction 1
- Author
- Subject Category 2
- Educational Level
- File Format
- Language
- Learning Resource Type
- Source 1

mit

MIT OpenCourseWare 64

Series Artificial Intelligence

Source: MIT OpenCourseWare
Author: Patrick H. Winston
Self Learning | UG and PG
ENG

Abstract: This course introduces students to the basic knowledge representation, problem solving, and learning methods of artificial intelligence. Upon completion of 6.034, students should be able to develop in View more

Lecture 1: Introduction and Scope

Source: MIT OpenCourseWare
Author: Patrick H. Winston
Self Learning | UG and PG
ENG

Abstract: In this lecture, Prof. Winston introduces artificial intelligence and provides a brief history of the field. The last ten minutes are devoted to information about the course at MIT.

Lecture 23: Model Merging, Cross-Modal Coupling, Course Summary

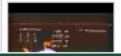
Source: MIT OpenCourseWare
Author: Patrick H. Winston
Self Learning | UG and PG
ENG

Abstract: This lecture begins with a brief discussion of cross-modal coupling. Prof. Winston then reviews big ideas of the course, suggests possible next courses, and demonstrates how a story can be understood View more

Lecture 18: Representations: Classes, Trajectories, Transitions

Source: MIT OpenCourseWare
Author: Patrick H. Winston
Self Learning | UG and PG
ENG

Abstract: In this lecture, we consider the nature of human intelligence, including our ability to tell and understand stories. We discuss the most useful elements of our inner language: classification, transiti View more



Lecture 19: Architectures: GPS, SOAR, Subsumption, Society of Mind

Source: MIT OpenCourseWare

Abstract: In this lecture, we consider cognitive architectures, including General Problem Solver

Content type

All

Video

Audio

Text

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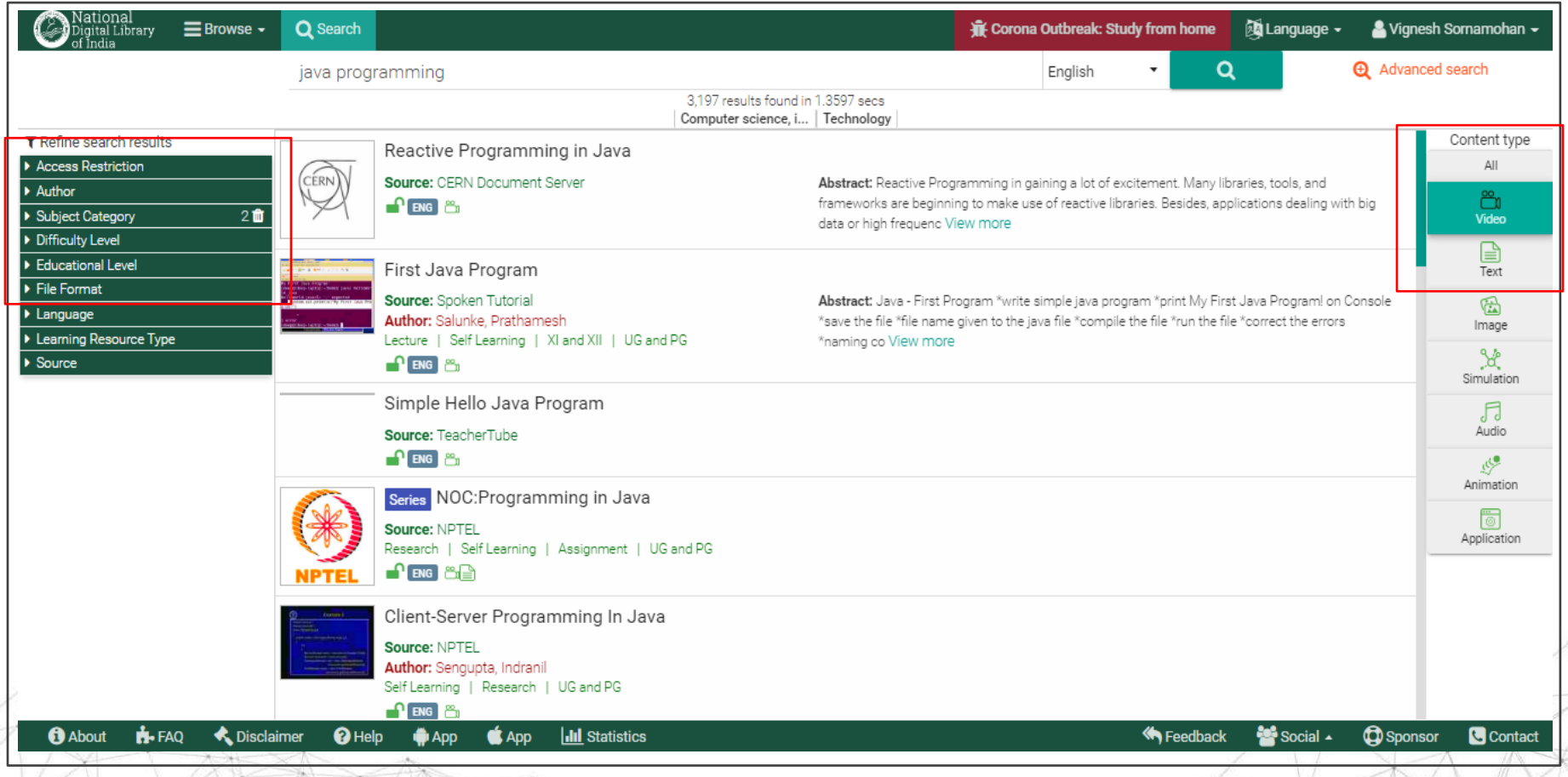
REFINE SEARCH: By Subject Category and Content Type



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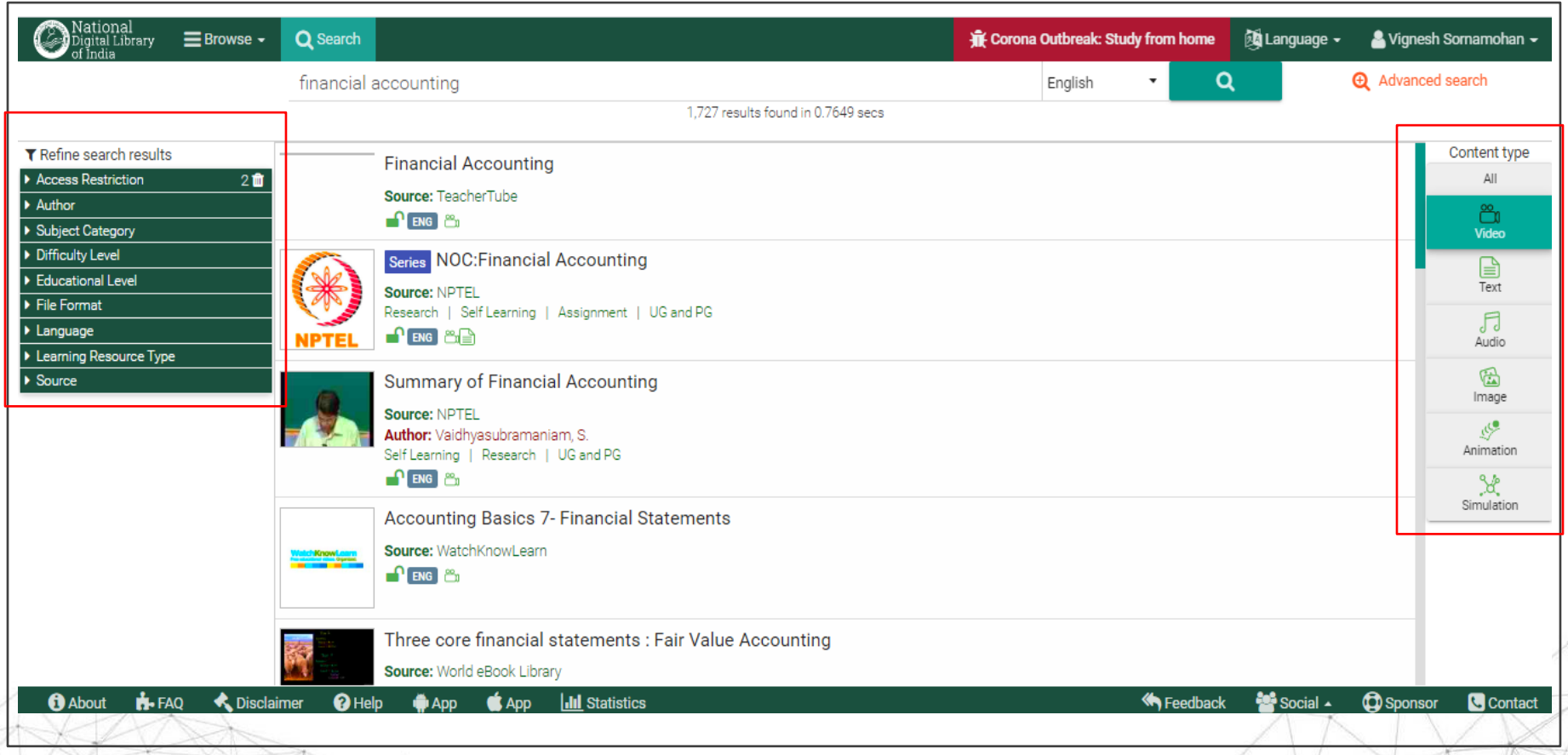
REFINE SEARCH: Access Restriction and Content Type



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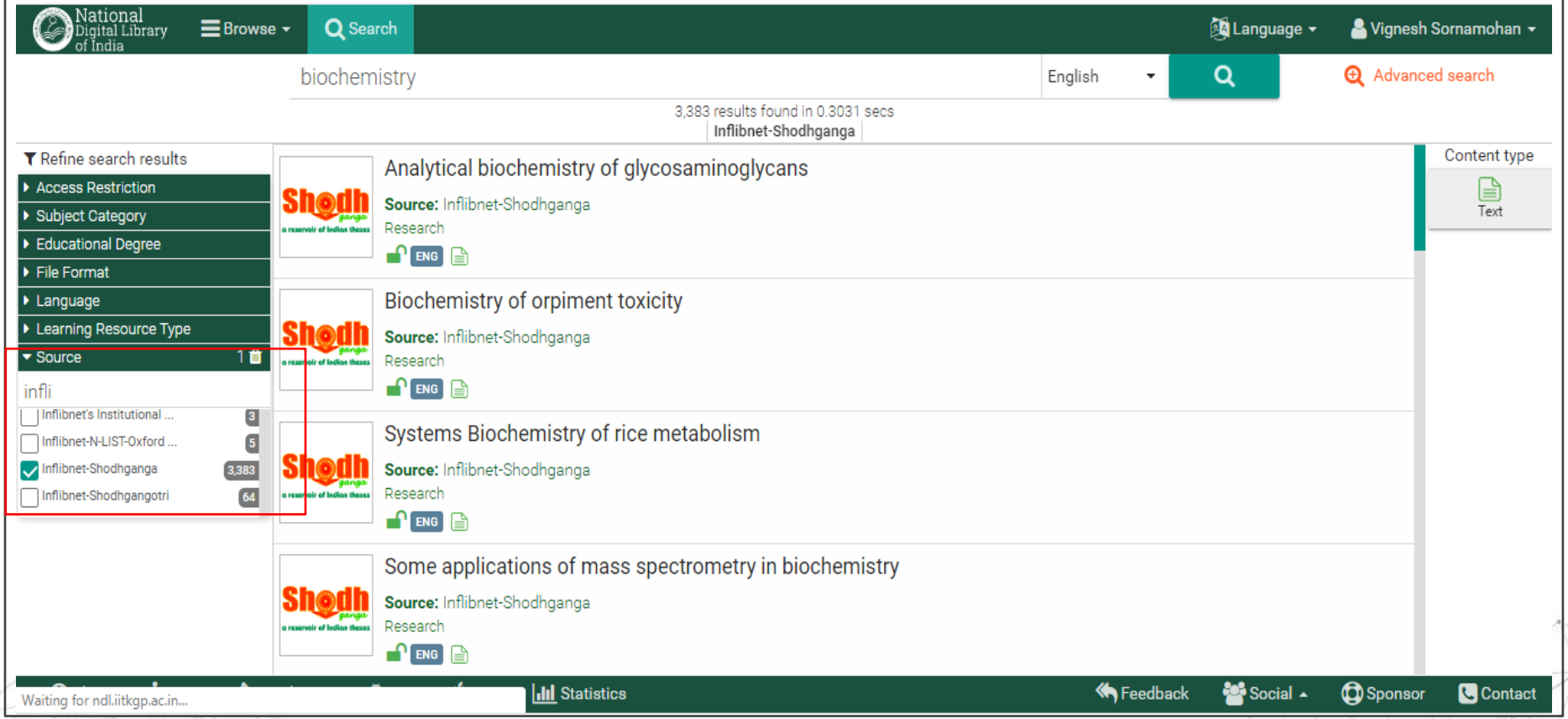
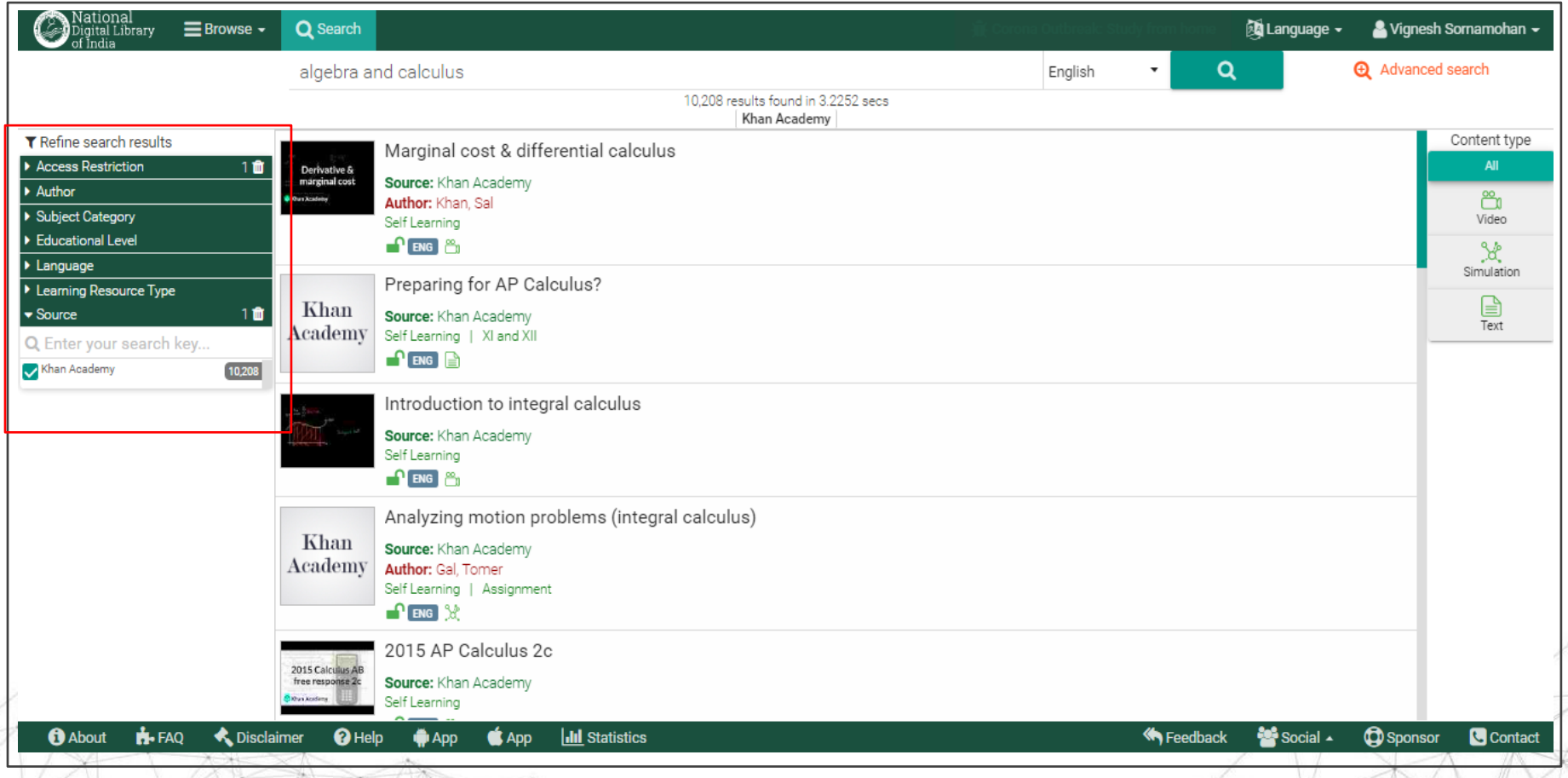
REFINE SEARCH: By Source



REFINE SEARCH: By Access Restriction and Source



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https://ndl.iitkgp.ac.in or https://ndl.gov.in

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School

This is for school students. Text books of NCERT and 20 other school boards, question papers, lecture videos, materials for preparation for examinations, solution of questions of JEE Main and JEE Advanced and several other study materials are available.

- ▸ Video Lectures
- ▸ JEE Preparation Materials
- ▸ Simulations, Activity, Self Assessments and various Study Materials
- ▸ Books from CBSE, NCERT and Other State Boards
- ▾ Books for general reading
  - Story Books : National Book Trust (NBT)
  - Books on Mahatma Gandhi : National Book Trust (NBT)
  - Books on Great Indian Women : National Book Trust (NBT)
  - Story of Mythology : National Book Trust (NBT)
  - Story Books Jungles & Animals : National Book Trust (NBT)

विद्यया ऽ मृतमश्नुते

एन सी ई आर टी
NCERT

NCERT Books

State Board Books :

- Andhra Pradesh
- Gujarat
- Jammu and Kashmir
- Kerala
- Madhya Pradesh
- Maharashtra
- Odisha
- Punjab
- Rajasthan
- Tamil Nadu
- Telangana
- Tripura

nbt.india
एकः सूते सकलम्

National Book Trust Books

Other content for school students and teachers are:

- cK-12
- ComPADRE
- AstroPix
- Go-Lab
- Pratham Storyweaver
- TeachEngineering STEM Curriculum for K-12
- Science in School
- TeacherTube

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Engineering

This contains lecture videos and notes of NPTEL/SWAYAM courses, presentations used by faculties in classes, online class lectures, questions/solutions of common subjects for students of all engineering discipline.

- Common Subjects
- Aerospace Engineering
- Architecture
- Chemical Engineering
- Civil Engineering
- Computer Science & Engineering
- Electrical Engineering
- Electronics & Communication Engineering
- Mechanical engineering
- Mining Engineering

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Featured Content for School Students

NPTEL	CBSE School Content for Class 6 to 12, NEET Preparation Materials, and English Grammar
exploratorium	Scientific funhouse and experimental laboratory for school children
TED Ed	TED Ed has animated videos and lectures on ideas that spark teachers and students
Khan Academy	Video lectures from experts on any topics for students and teachers
Spoken Tutorial	Computer Science programming language video lectures

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Featured Content for School Students

National Science Digital Library high quality online educational resources for students and teachers on Science, Technology, Engineering and Mathematics (STEM)

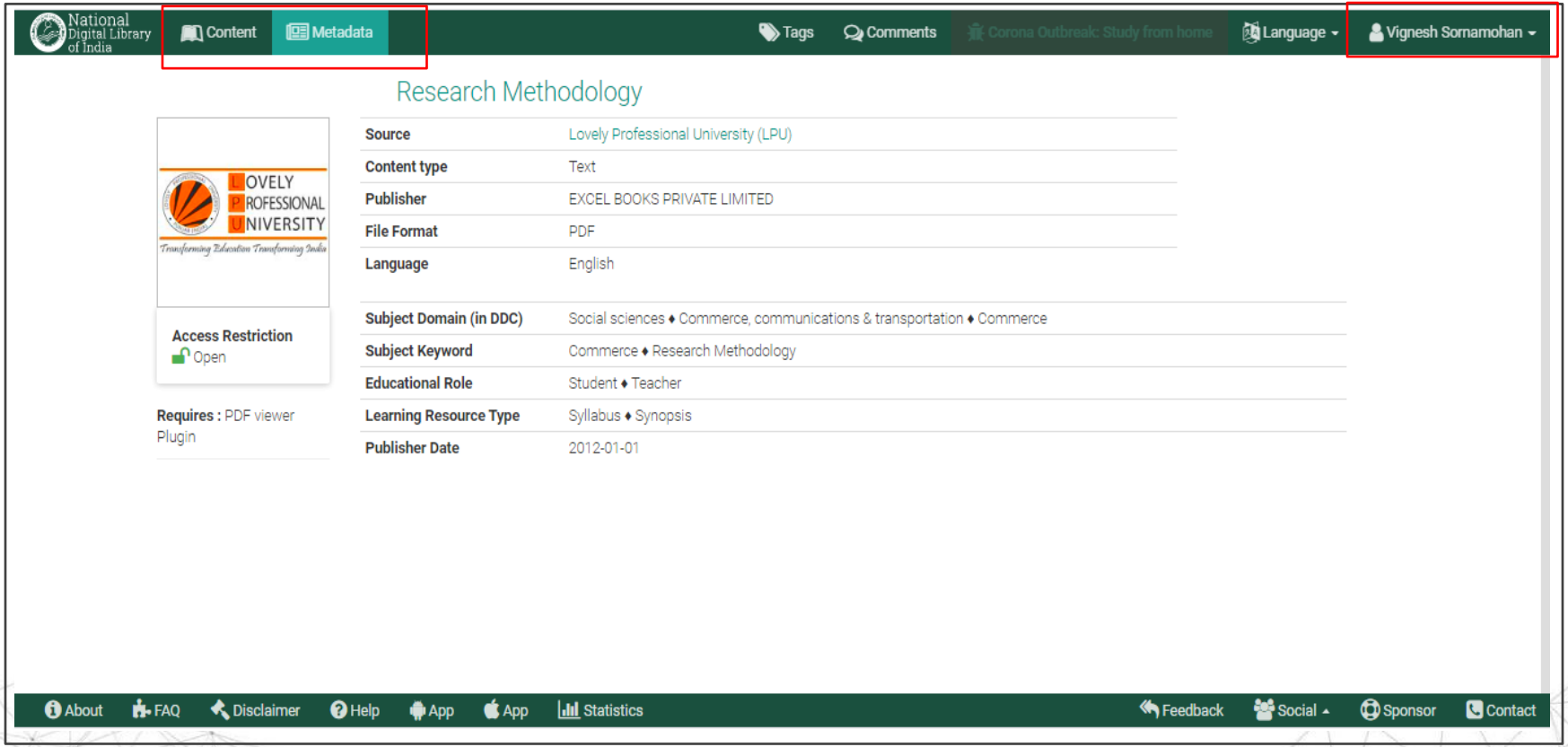
Physics Classroom has tutorials, simulations and concept builders on Physics for students and teachers

Open source educational content for various engineering disciplines

StemEZ - JEE Preparation Materials and STEM Materials

PhET Simulations on science and mathematics for students and teachers

FULL-TEXT: METADATA PAGE- Sample 1



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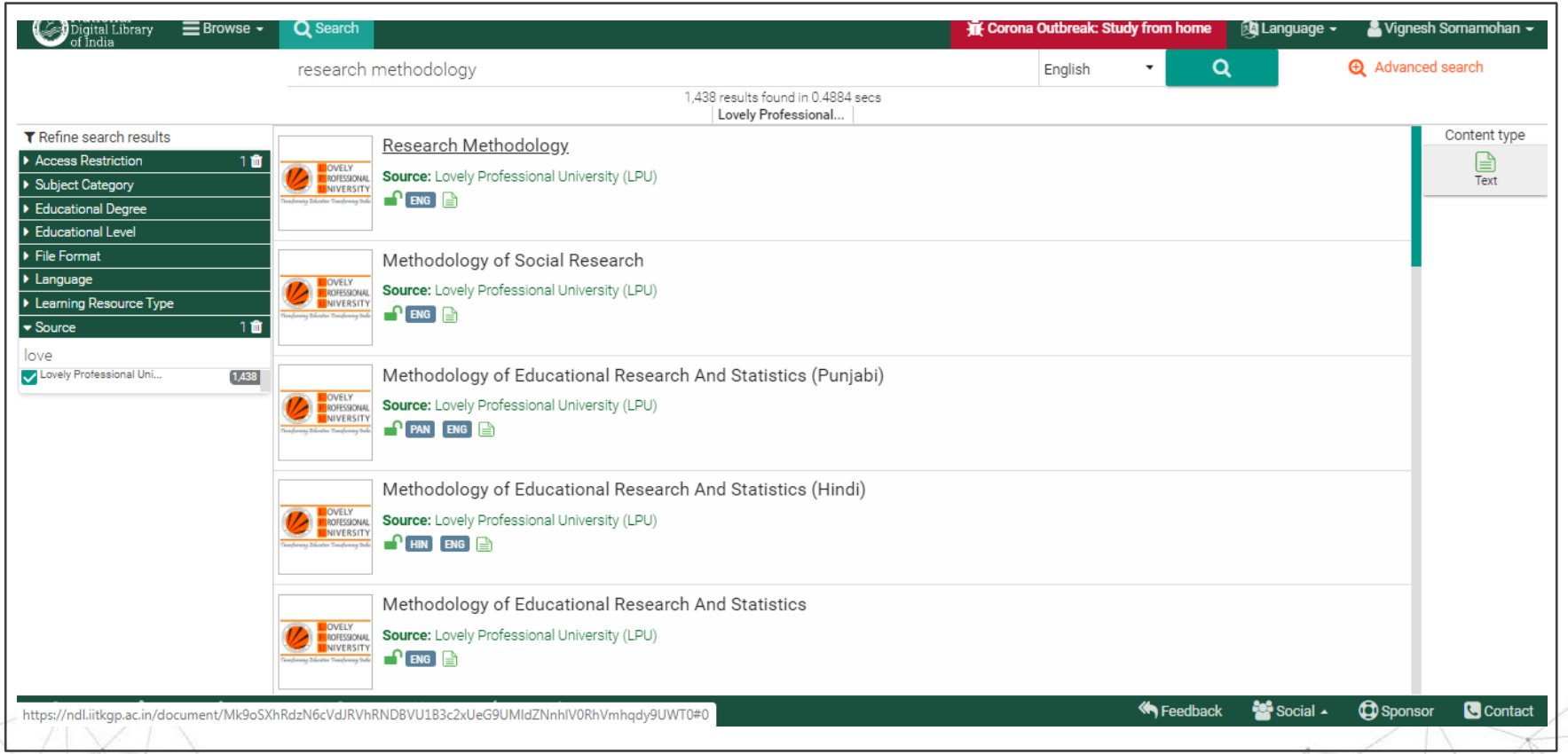
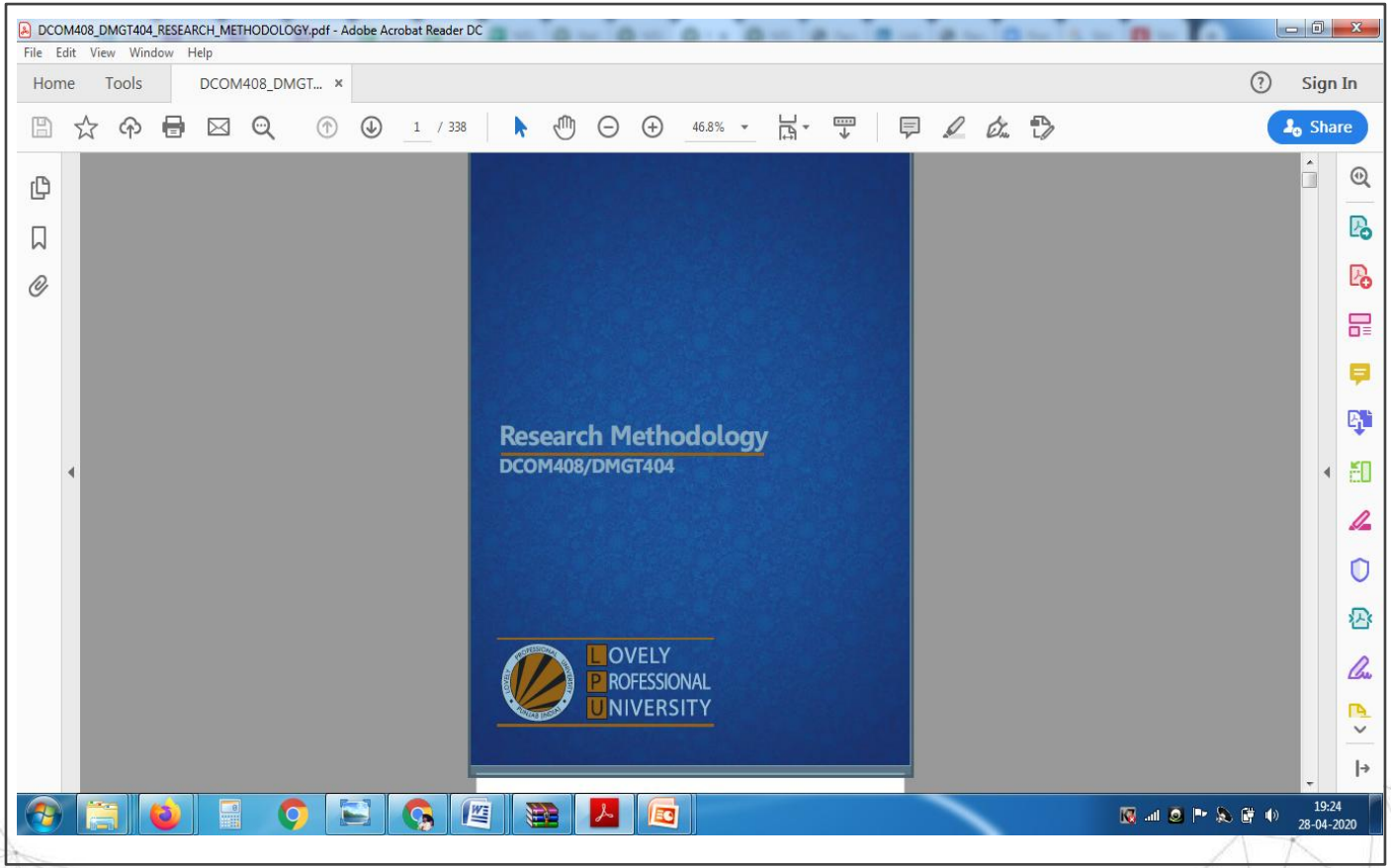
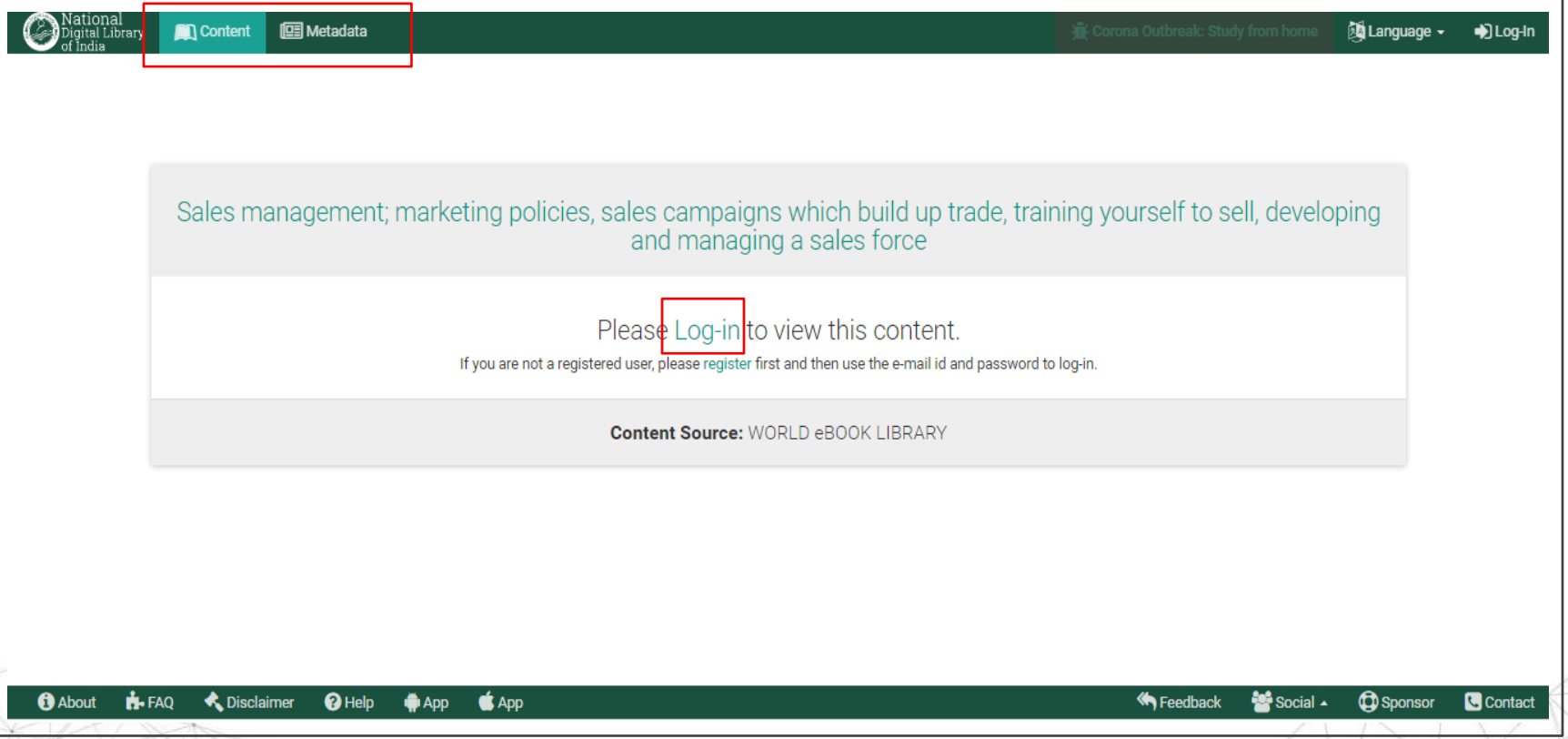
REFINE SEARCH: By Search



FULL-TEXT: FURTHER PAGES - Sample 1



National Digital Library of India



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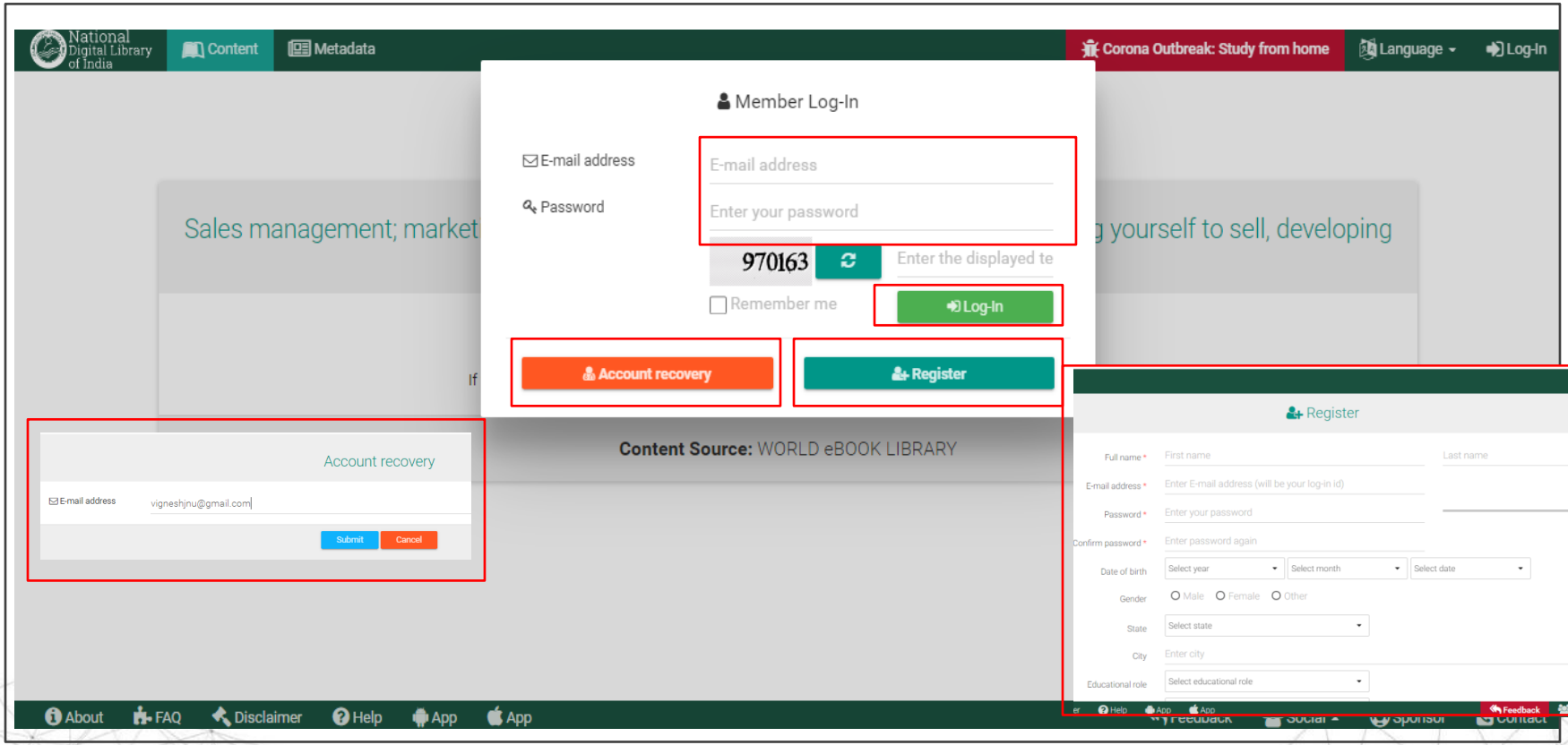
FULL-TEXT: METADATA PAGE- Sample 1



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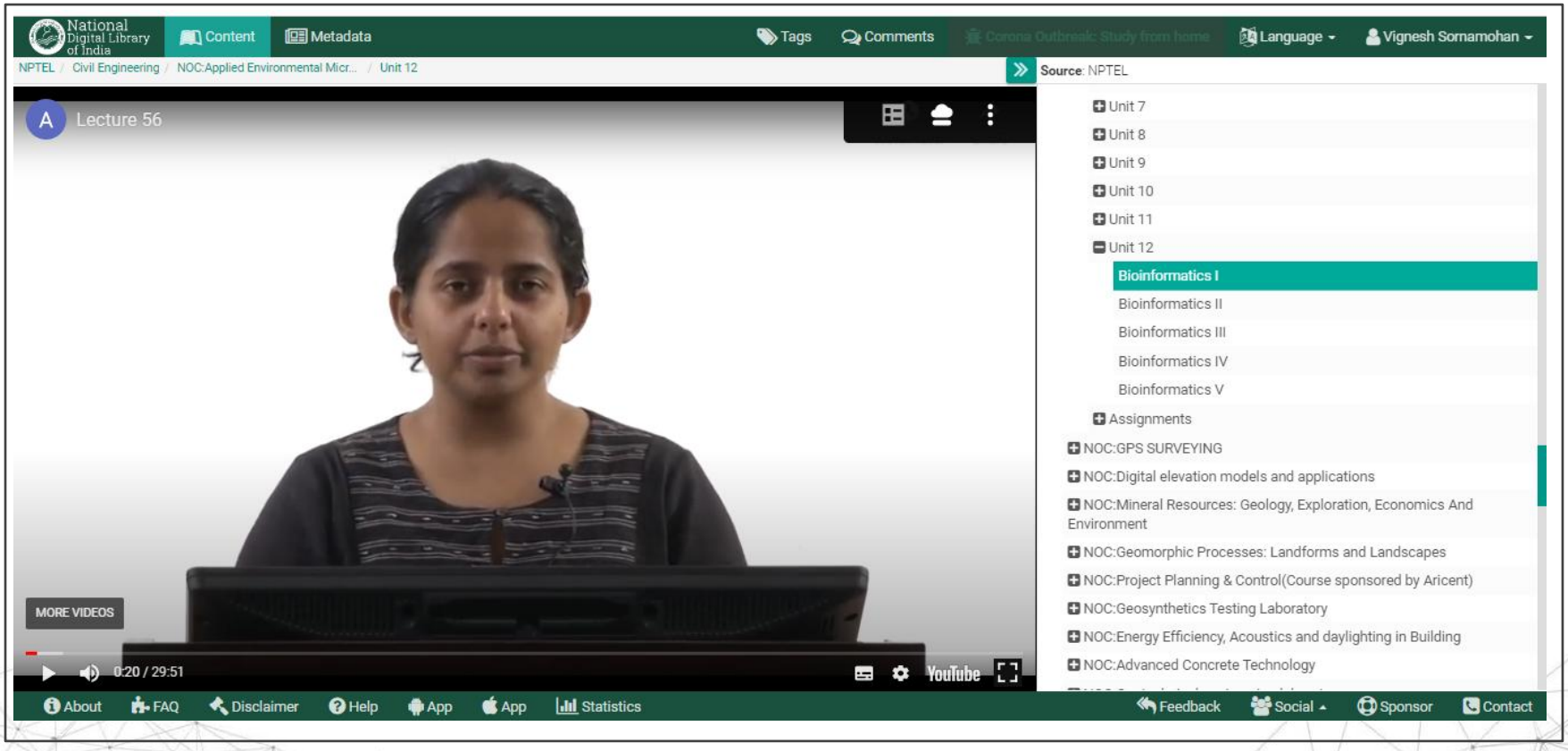
FULL-TEXT: Video Lecture from NPTEL



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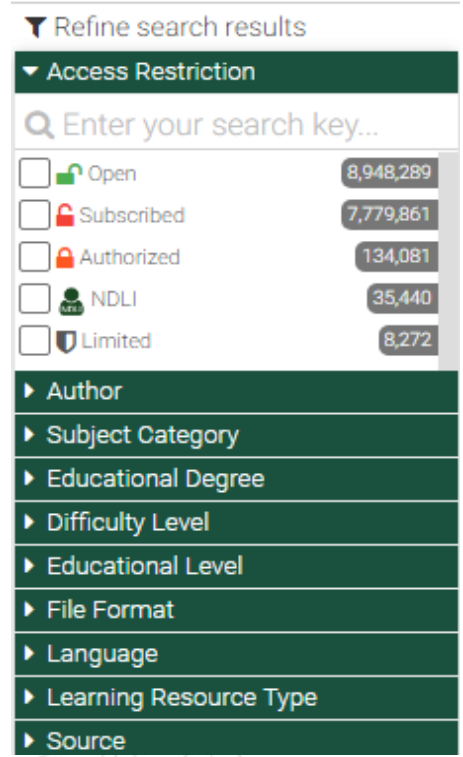
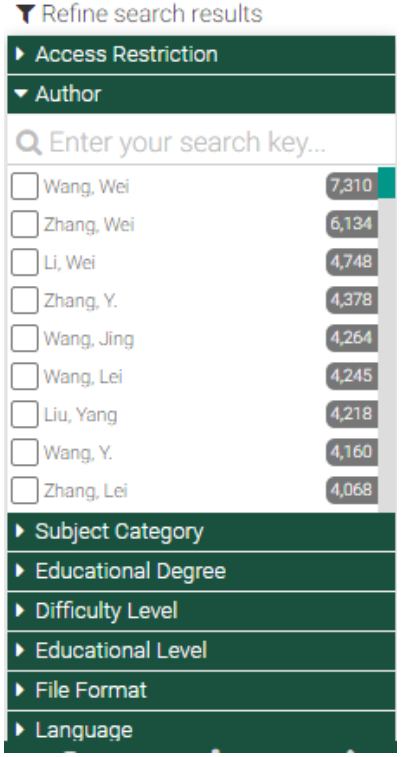
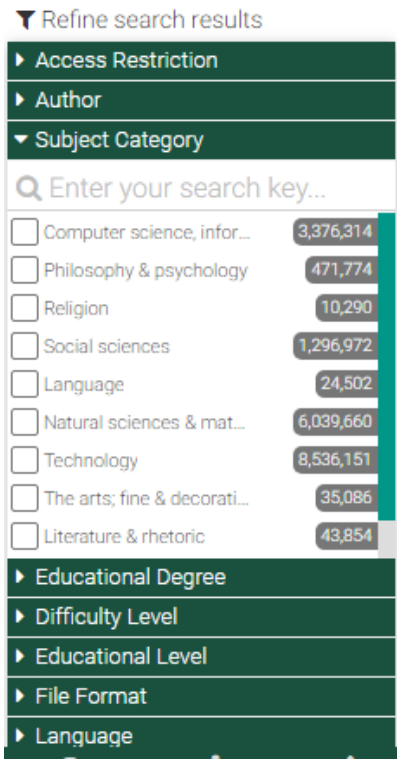
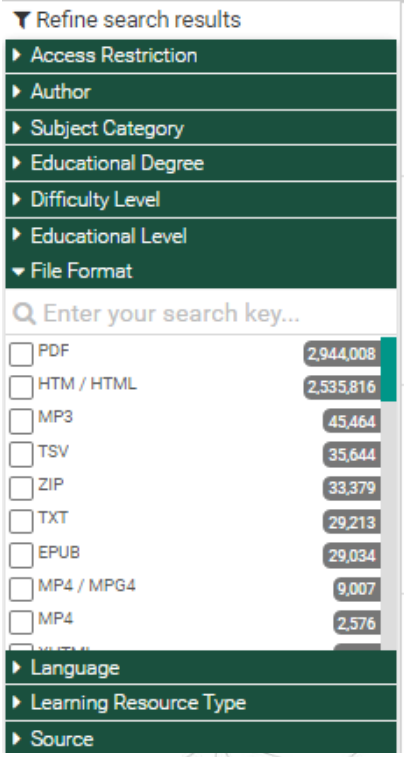
FILTER OPTIONS









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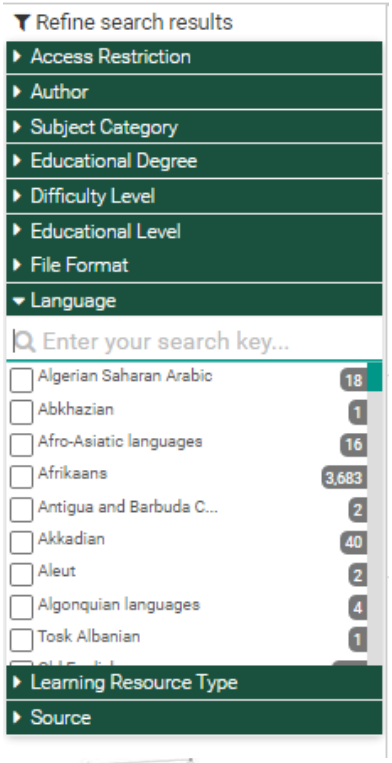
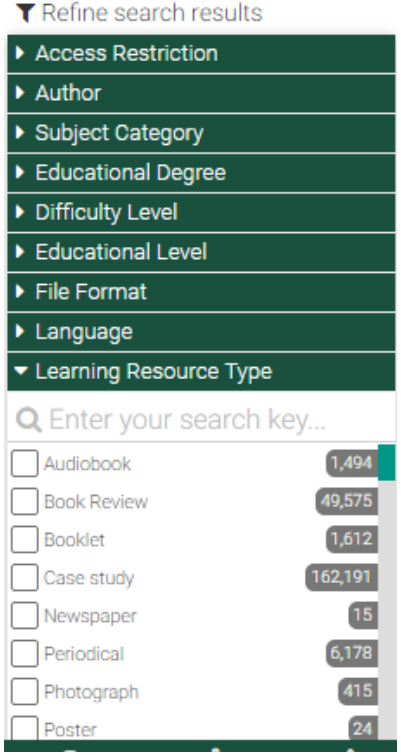
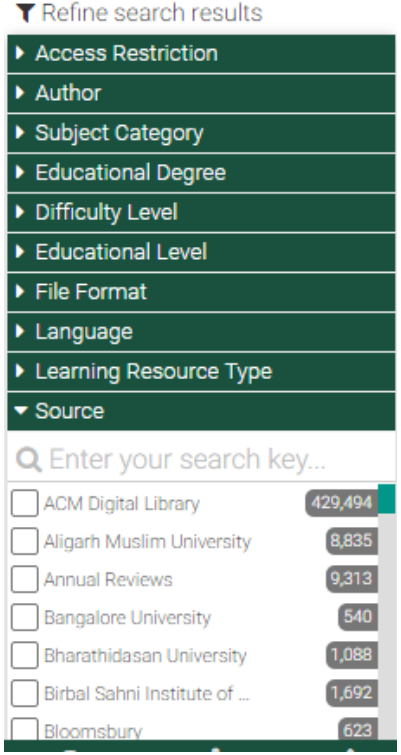
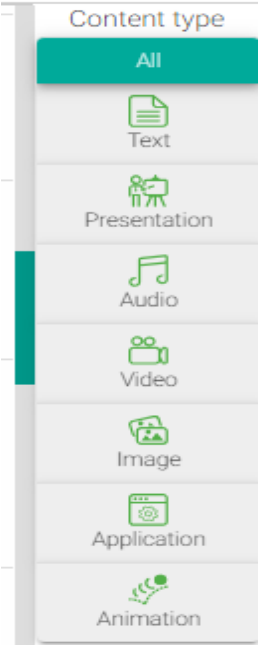
FILTER OPTIONS









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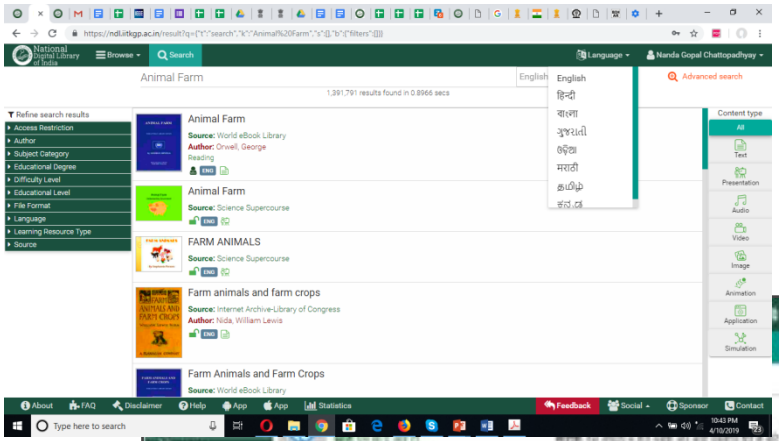
INDIAN LANGUAGE INTERFACE



NDLI BANGLA

NDLI HINDI

NDLI GUJARATI

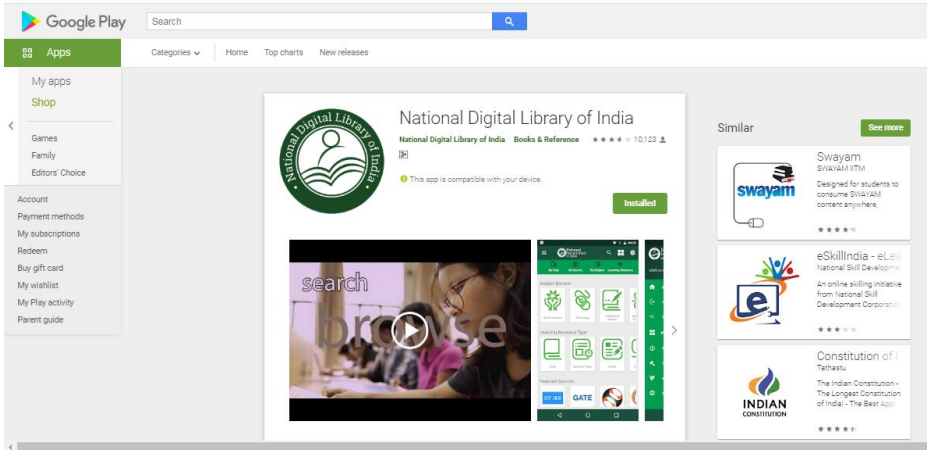
INDIAN LANGUAGE INTERFACE

NDLI Mobile App

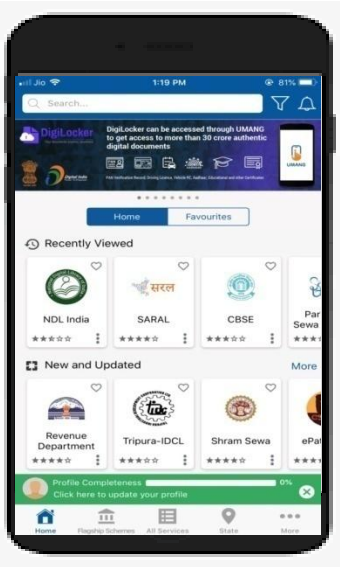
Available on Android and iOS and in UMANG

NDLI M-SITE:

Landing page



UMANG APP



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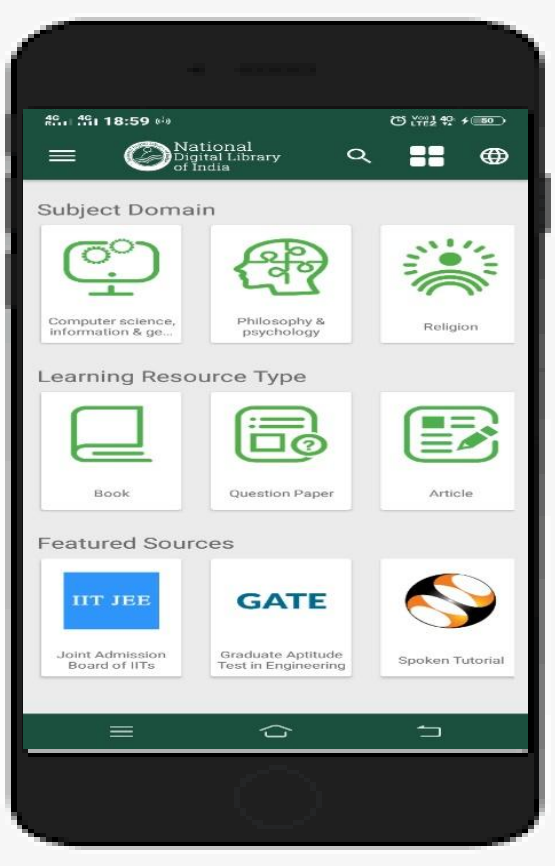
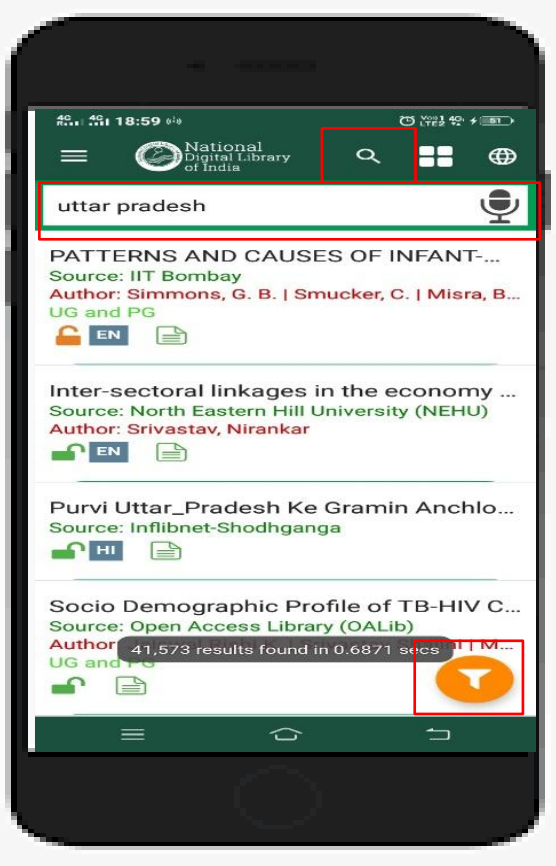
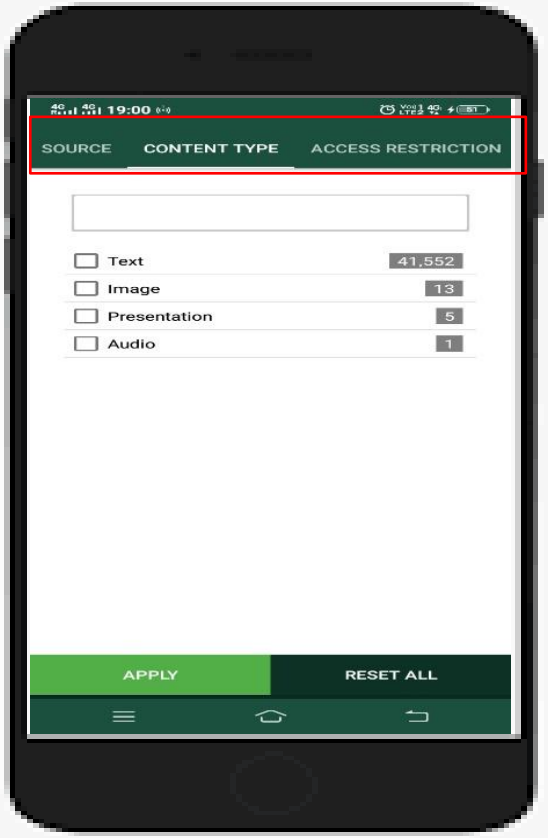
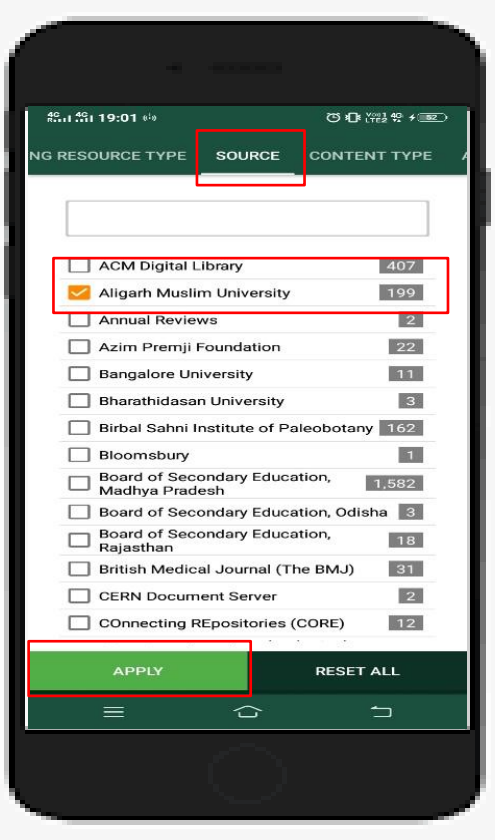
NDLI Mobile App







NDLI Mobile App



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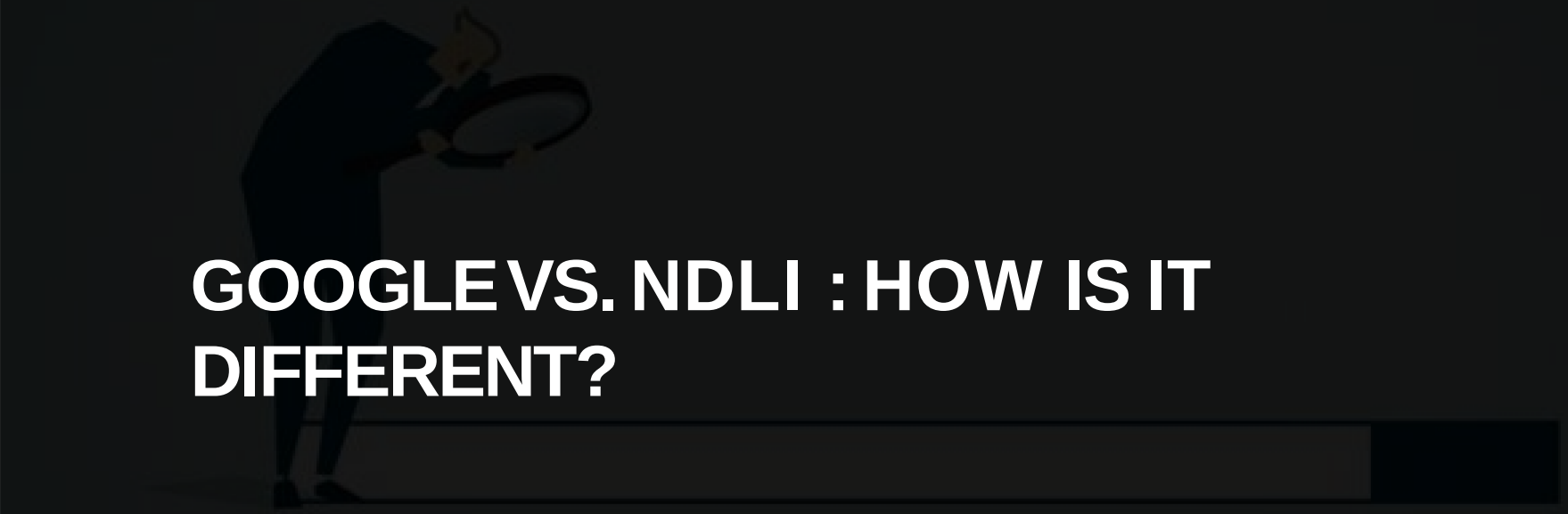

GOOGLE VS. NDLI : HOW IS IT DIFFERENT?

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This is Payel

- Payel is now in class VIII. Her native language is hindi.
- Her final exams are next month. She is particularly scared of Physics.
- Payel's father has a MOTO-G5 with 4GB RAM.
- It has Google, YouTube and the NDLI Android app!

This is Shamik

- Shamik is an engineering student.
- He is interested to apply for the PhD position. He needs technical papers on magnetism to build his paper.
- Shamik has an iPhone7.
- It has Google, YouTube and the NDLI iOS app!

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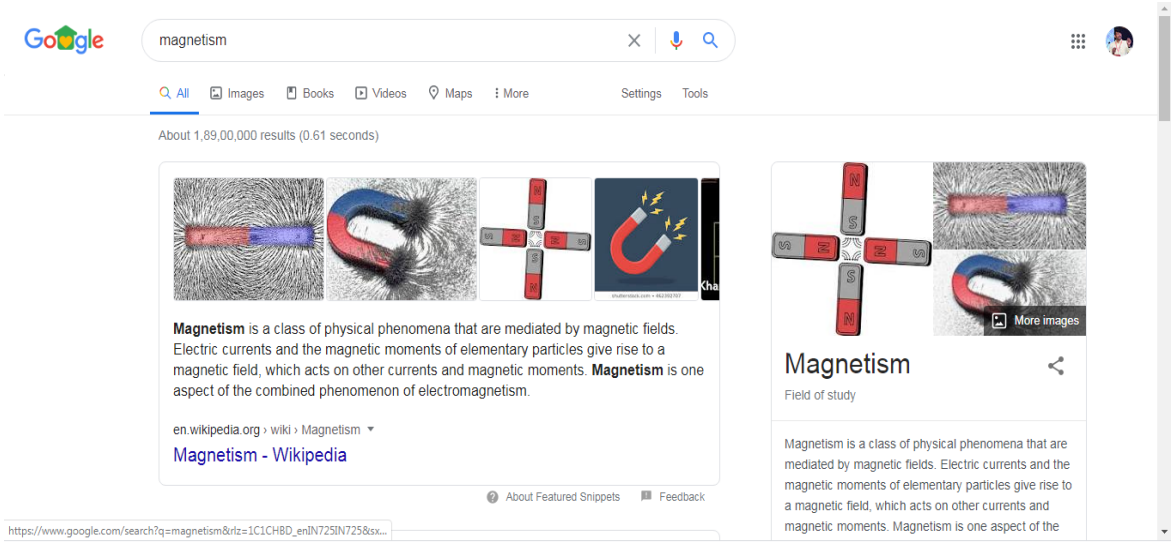
Results: *1,89,00,000*

Search Keyword: *Magnetism*

magnetism

magnetism
magnetism **pdf**
magnetism **and matter**
magnetism **and electricity**
magnetism **definition**
magnetism **physics**
magnetism **class 12**
magnetism **introduction**
magnetism **icse class 9**



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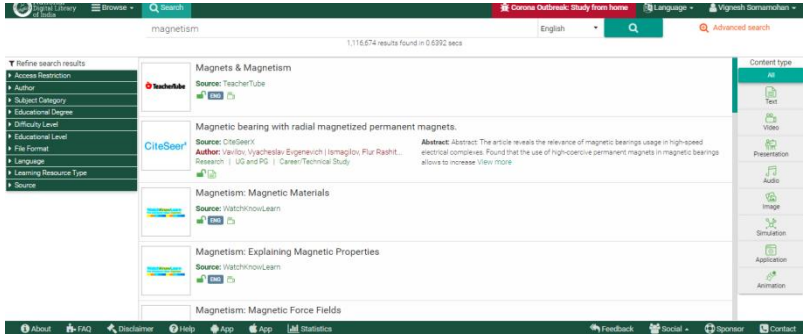
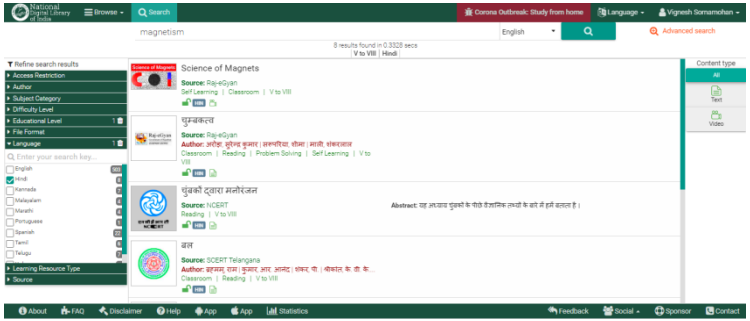
Search Keyword: *Magnetism*

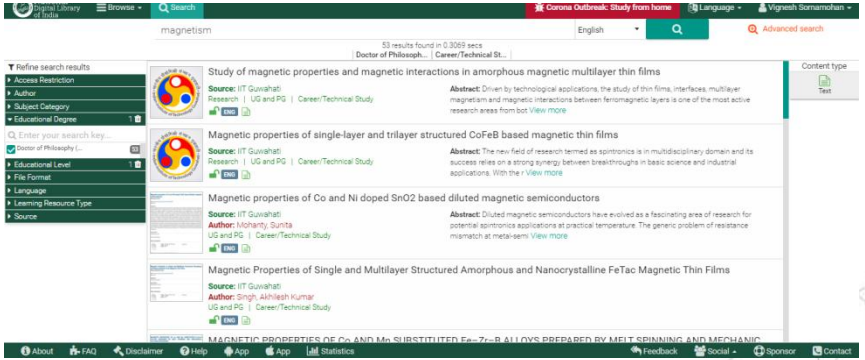
Results: *11,16,674*



Educational level: *V-VIII and Hindi (8 results)*



Search filter: *Career/Technical Paper (219 results)*



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GOOGLE VS. NDLI

		GOOGLE	NDLI	Additional Advatnges with NDLI
1	Curated Educational Content	✗	✓	• Instead of throwing up thousands of random results, NDLI presents specific data from premium content sources in multiple indian languages
2	Narrow down results using filter options	✗	✓	• Not only can learners modify their search based on educational degree and languages, they can also put in filters based on content type
3	Modify search based on content type viz. Audio book/ video etc.	✗	✓	• The NDLI platforms learns from the users searches and presents more and more relevant data with regular use
4	National Licensing	✗	✓	• Paid content can be accessed free-of-charge due to National Licenses so that learners from the remotest parts of India can learn, share and grow

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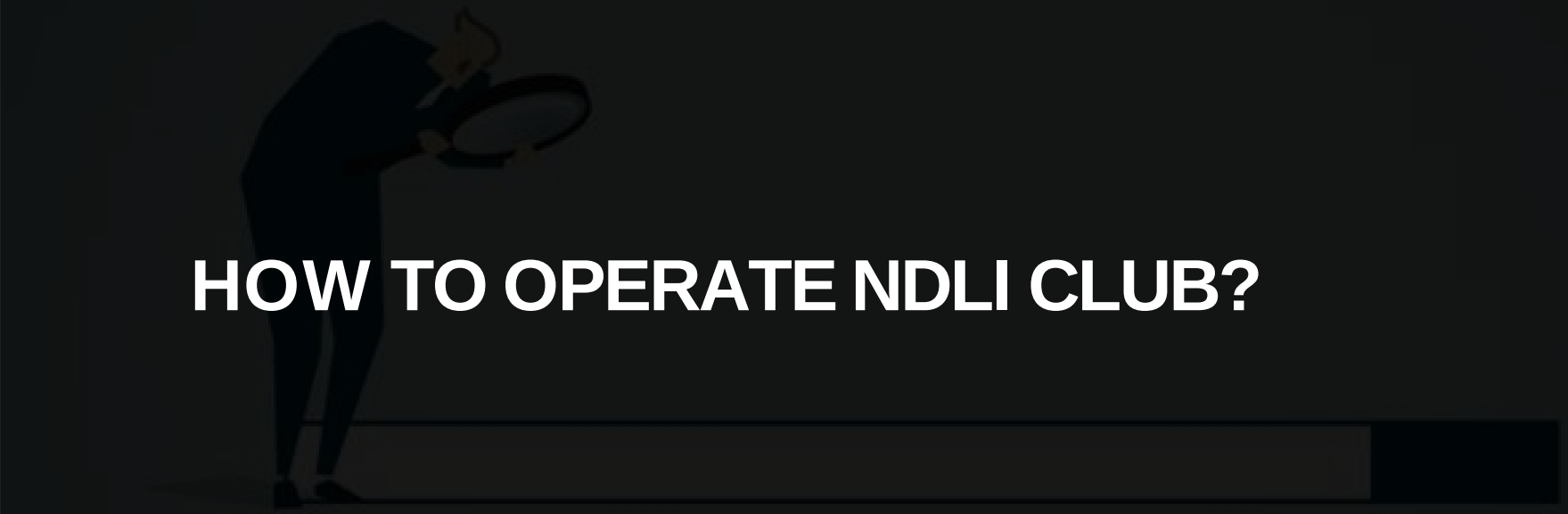

HOW TO OPERATE NDLI CLUB?

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Objective of NDLI Club

The objective of NDLI Club is to take the knowledge resources of NDLI to every citizen of the country and promote the culture of reading

NDLI Club Composition

At least 1 student from each Class and 1 faculty member from each Department, with Librarian or Faculty Member of NSS Coordinator as the ex-officio Secretary and Principal as the ex-officio Chairman of the club

NDLI Club Registration

After forming NDLI Club in your institution, you are requested to fill the NDLI Club Registration Form available here: https://goo.gl/forms/ZVxy9GwNQ5Nn4rDz2

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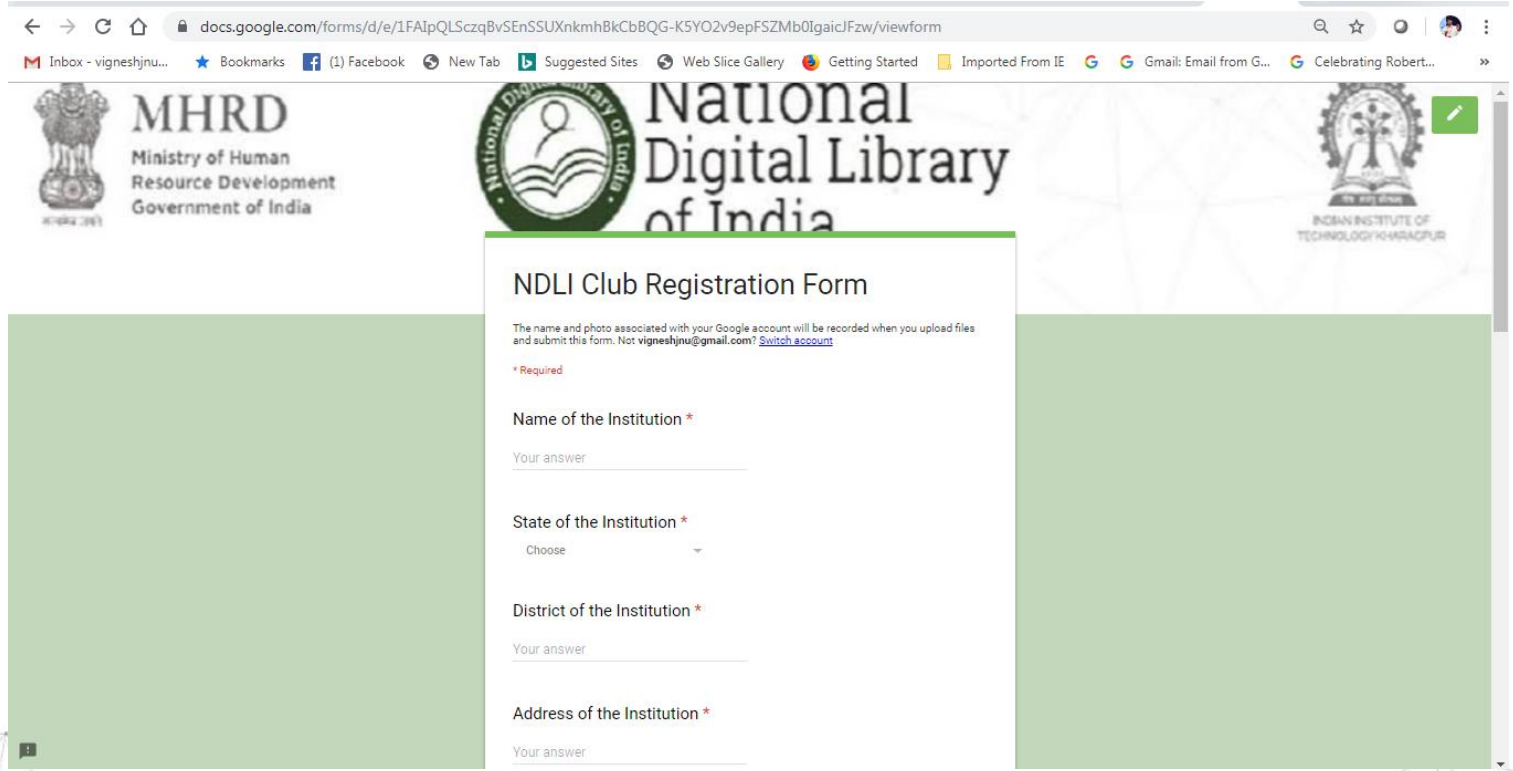

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docs.google.com/forms/d/e/1FAIpQLSczqBvSEnSSUXnkmhBkCbBQG-K5YO2v9epFSZMb0IgaicJFzw/viewform

Bookmarks | (1) Facebook | New Tab | Suggested Sites | Web Slice Gallery | Getting Started | Imported From IE | Gmail: Email from G... | Celel

e-Mail of the Nodal Person *

Your answer

Mobile Number of the Nodal Person *

Your answer

Number of NDLI Club Members *

Your answer

Total Number of Students in the Institution *

Your answer

Attach the List of NDLI Club Members *

ADD FILE

Date of Starting NDLI Club in your Institution *

Date

dd-mm-yyyy

SUBMIT

National Digital Library of India

MHRD
Ministry of Human Resource Development
Government of India

National Digital Library of India

CERTIFICATE OF REGISTRATION

This is to certify that **Assam down town University** is registered as a **NDLI Club** under the National Digital Library of India.

Dr.Vignesh Sornamohan
Chief Strategic and Outreach Officer
National Digital Library of India Project
Indian Institute of Technology
Kharagpur

NDLI CLUB PARTNER
National Digital Library of India
- LEARN. SHARE. GROW. -

Registrant's Address:
Sankar Madhab Path, Gandhinagar
Guwahati - 781026
Registration Number: NAS00134
Date of Registration: 24th February, 2020
Valid Upto: 23rd February, 2021

Step 1: Register all the students and faculty members within 30 days of receipt

Step 2: Conduct at least 10 reading/ knowledge related activities

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HOW TO REGISTER?

LOG ON TO :

https://ndl.iitkgp.ac.in

- Registration to NDLI is **OPEN FOR ALL**

REGISTRATION TYPE:

- **Individual:** Register directly
- **Bulk Registration:** Bulk registration managed by Institution overseen by an authenticated nodal person

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Kongu College Users List 07 Dec 2018 - Excel

Vignesh Sornamohan

File Home Insert Page Layout Formulas Data Review View Add-ins Help Tell me what you want to do Share

Paste Cut Copy Format Painter | Calibri 11 | Wrap Text | General | Conditional Formatting | Format as Table | Cell Styles | Insert | Delete | Format | AutoSum | Fill | Clear | Sort & Filter | Find & Select

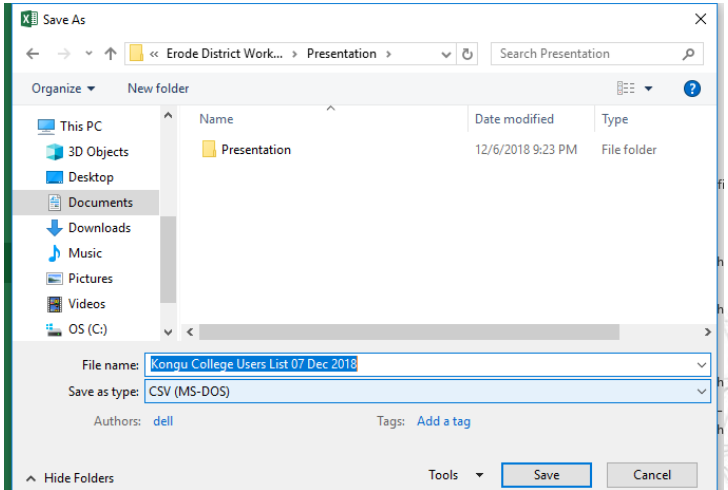
Clipboard Font Alignment Number Styles Cells Editing

E4

	A	B	C	D	E	F	G	H	I	J	K	L	M	N	O	P
1	vigneshjnu@gmail.com	Vignesh	Sornamohan													
2	guhananya@gmail.com	Ananya	Guha													
3	rajendra.singh1310@gmail.com	Rajendra	Singh													
4																

Note: Institute Details

1. Full name of the colleges/ university/ institute
2. Full address:
3. Nodal person:
4. Nodal person's contact details: (eMail, Landline and Mobile)
5. Principal's contact details: (eMail, Landline and Mobile



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BULK REGISTRATION PROCESS

1. Librarian is the Nodal person
2. Nodal person sends the list of all users of the Institute (e-Mail ID, First Name, Last Name) in a CSV file
3. Nodal person send it to ndl-support@iitkgp.ac.in with a copy to Vignesh@ndl.gov.in/ vigneshjnu@gmail.com
4. Automated mail goes to each user with a link within 48 hours
5. User needs to click the link to activate and complete his/her registration

Note:

1. Collect the users' personal eMail that they regularly use
2. Ensure that the users remember their eMail and NDLI password
3. Verification of eMail is a must

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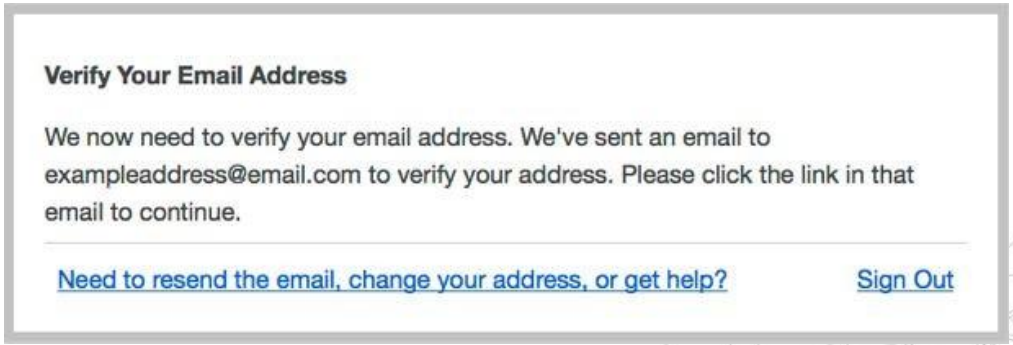
INDIVIDUAL REGISTRATION PROCESS

1. Go to https://ndl.iitkgp.ac.in
2. Register (free) using email ID
3. An automated mail goes to e-mail id of the Registrant with a link
4. Registrant needs to click the link to activate and complete registration
5. Login and enjoy NDLI on the web
6. Alternatively, download the NDLI mobile app



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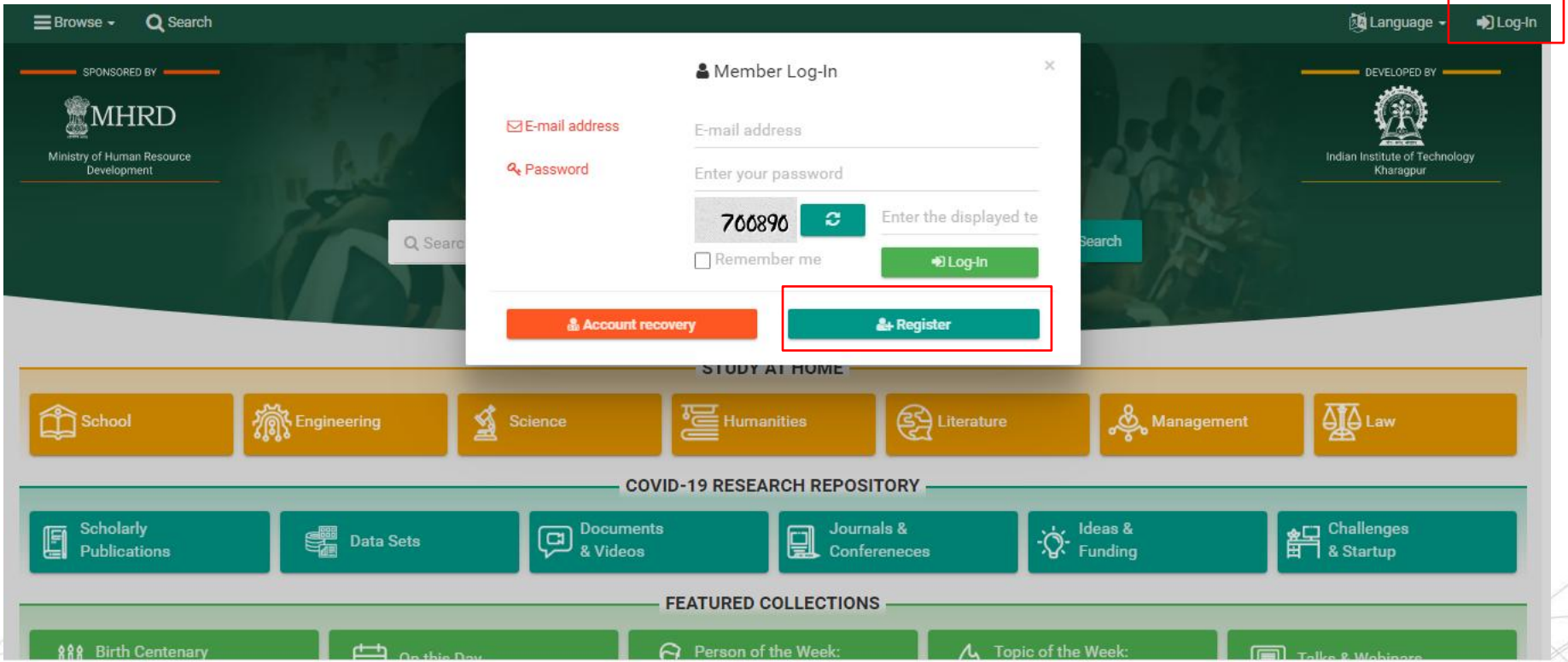
NDLI INTERFACE:

https://ndl.iitkgp.ac.in



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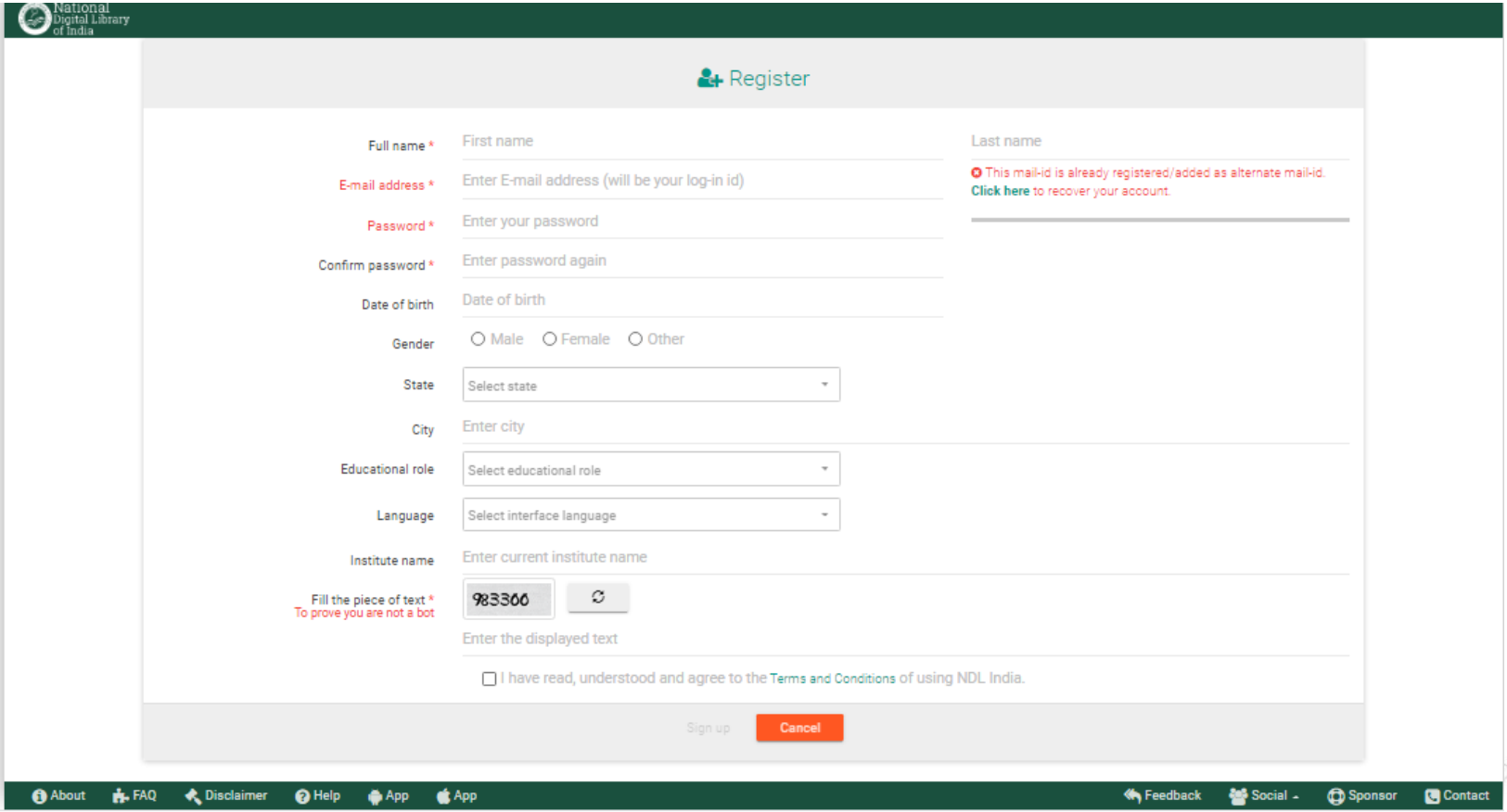
NDLI WEBSITE: Registration



Activities of NDLI Club

- NDLI Lecture Series
- NDLI Quiz
- NDLI Story Talk
- NDLI Go Fish
- NDLI Film Screening
- NDLI Draw
- NDLI Role Play
- NDLI Write On
- NDLI Makerspace
- NDLI Debate

Monthly Activity Report

URL: https://goo.gl/forms/qYtUTyWtJJeccqKt2

Club members can come up with any new reading related activities and inter-college activities/ competitions too

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DLI Book Talk Programme @ NIET Library on 3.01.2019

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Incentives for NDLI Club

- NDLI Reading Olympiad – Rolling Trophy
  - District
  - State
  - National

- Best NDLI Club at District/ State/ National level will be suitably rewarded:
  - Number of registered and active users
  - Number of reading related activities conducted
  - Number of participants in the activities

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LET'S GET STARTED

Dedicated to the Nation.

Together, let us
#LearnShareGrow

Visit :
https://ndl.gov.in
https://ndl.iitkgp.ac.in

@NDLIndia

For project information visit:
http://www.ndlproject.iitkgp.ac.in/ndl/

For project video visit:
https://www.youtube.com/watch?v=6EuTxPDr1sw