







NDLIUser 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

 Books are for use.
 Books are for all, or, Every reader his book.
 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 NDLICLUB?



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



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









NDLI dedicated to the Nation on 19th June, 2018

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





METADATA: THE HEART OF NDLI





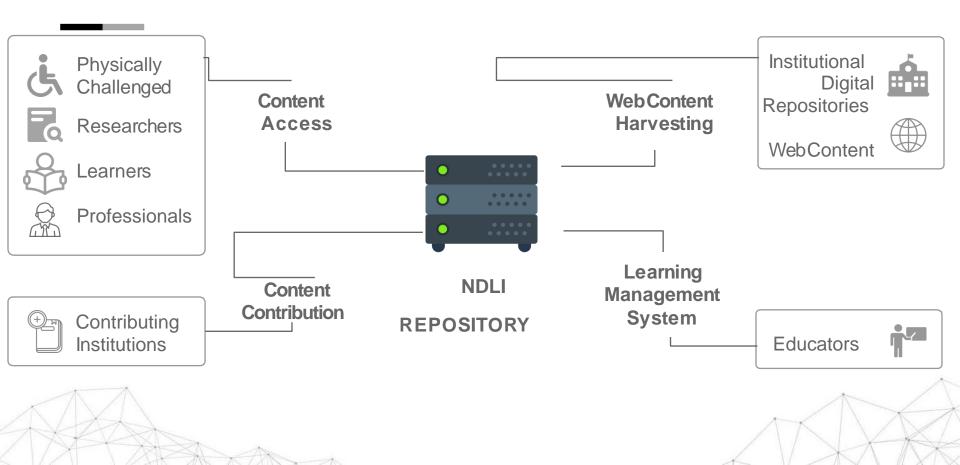
- Metadata is primarily textual information relating to content
- It includes information that enables users to identify, discover, search, browse, interpret, or manage content
- Includes hyperlinks that direct users to content on the source
- May include an expressive description of the content

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



USE MODELS







Some Current Content Contributors





Total: 306



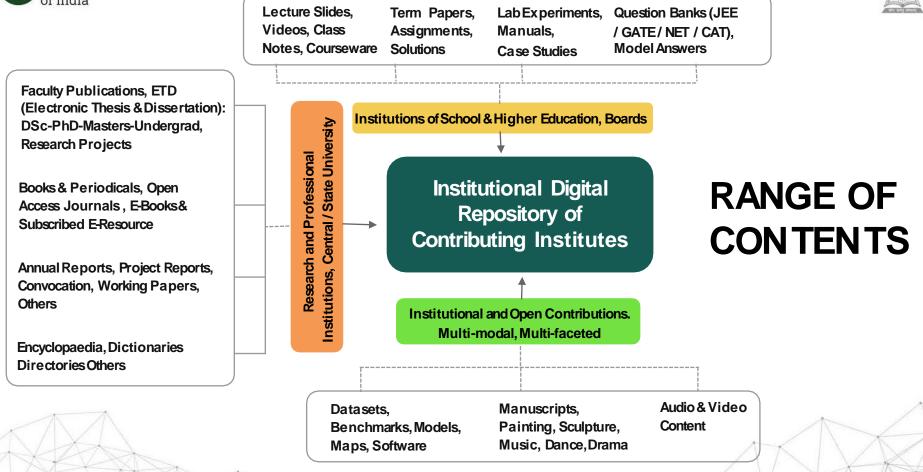
Content Available



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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Methodology of educatioal research

Source: Institute for Social and Economic Change Author: Good, Carter V. | Barr, A. S. | Scates, Douglas E. Deading



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			Aging Research - Methodological Issues Source: Springer-eBooks Reading
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	Full-text available to all (Example: NCERT)		Research methodology in social science Source: Institute for Social and Economic Change
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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





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.



WHO IS THIS FOR?



The NDLIplatform is for

ALL learners.





LEARNERS

ACADEMICS/ RESEARCHERS

SCHOOL

EDUPRENEURS



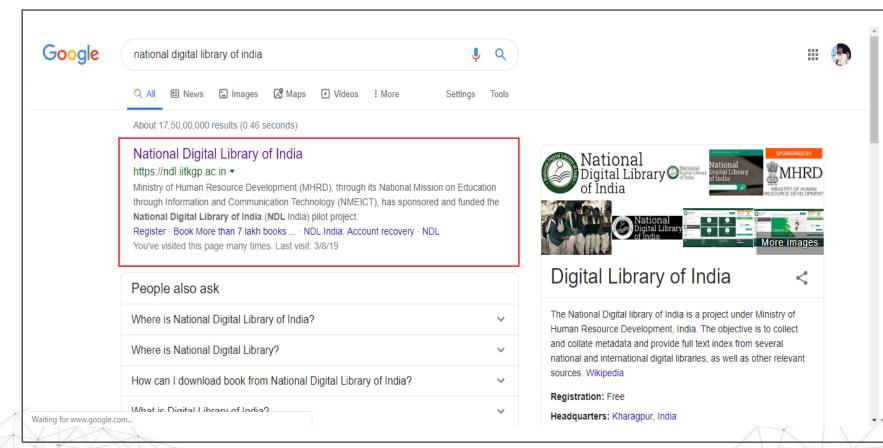


HOW TO ACCESS NDLI?



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

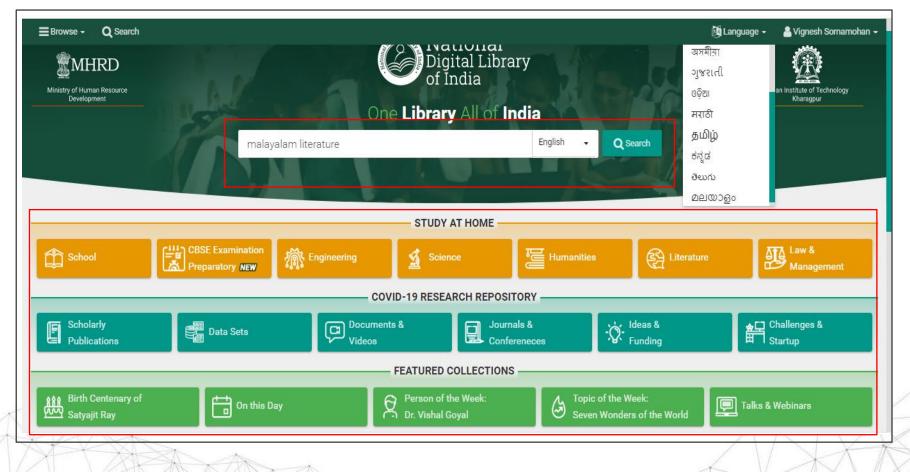






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· · · · · · · · · · · · · · · · ·	Source: MIT OpenCourseWare Author: Patrick H. Winston	Abstract: In this lecture, Prof. Winston introduces artificial intelligence and provides a brief history of the field. The last ten minutes are devoted to information about the course at MIT.	Text
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	Lecture 23: Model Merging, Cross-Mo	dal Coupling. Course Summary	
	Source: MIT OpenCourseWare Author: Patrick H. Winston	Abstract: This lecture begins with a brief discussion of cross-modal coupling. Prof. Winston then	
	Self Learning UG and PG	reviews big ideas of the course, suggests possible next courses, and demonstrates how a story can be understood View more	
		be understood view more	
	Lecture 18: Representations: Classes	, Trajectories, Transitions	
8	Source: MIT OpenCourseWare	Abstract: In this lecture, we consider the nature of human intelligence, including our ability to tell and	
	Author: Patrick H. Winston	understand stories. We discuss the most useful elements of our inner language: classification,	
	Self Learning UG and PG	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	

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REFINE SEARCH: Access Restriction and Content Type



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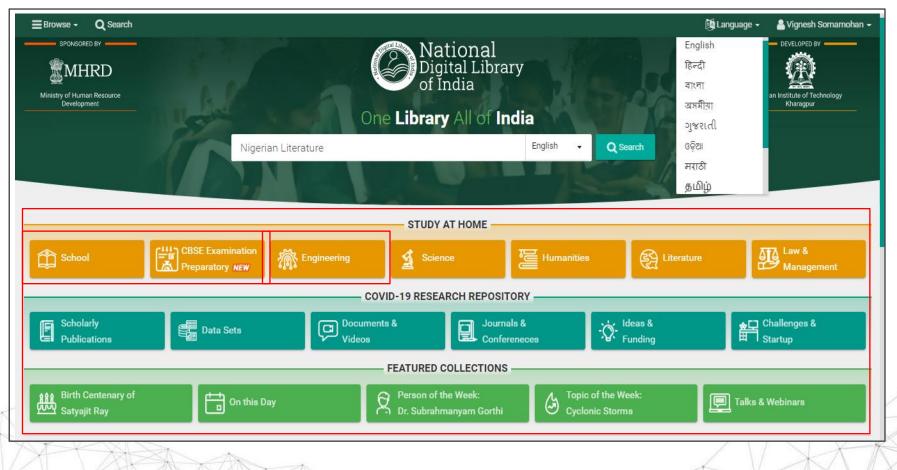


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Mational Digital Library of India	
	School This is for school students. Text books of NCERT and 20 other school boards, question papers, lecture videos, materials for preparation for examinations, solution of questions of JEE Main and JEE Advanced 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
	C Story Books : National Book Trust (NBT)
	🗘 Books on Mahatma Gandhi : National Book Trust (NBT)
	🗘 Books on Great Indian Women : National Book Trust (NBT)
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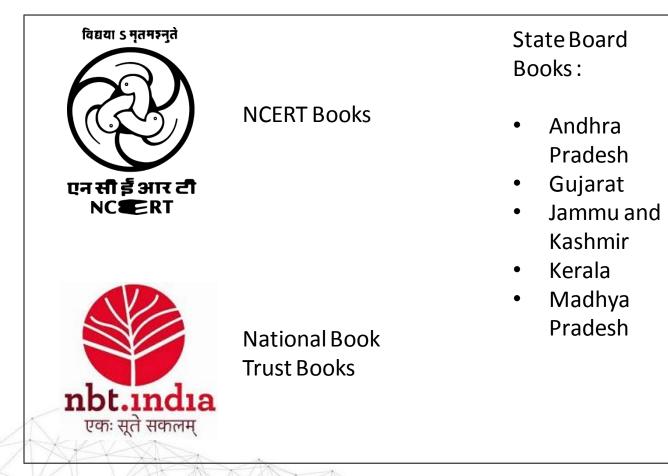
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Other content for school students and teachers are:

- cK-12
- ComPADRE
- AstroPix
- Go-Lab
- Pratham Storyweaver
- TeachEngineering STEM Curriculum for K-12

to

- Science in School
- TeacherTube

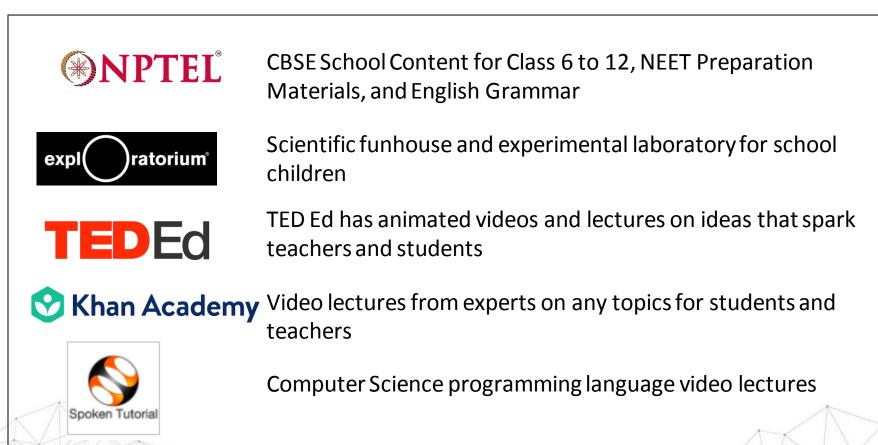




National Digital Library of India Engineering This contains lecture videos and notes of NPTEL/SWAYAM courses, presentations used by faculties in classes, online class lectu questions/solutions of common subjects for students of all engineering discipline. Common Subjects Aerospace Engineering Architecture Chemical Engineering Civil Engineering Computer Science & Engineering Electrical Engineering Electronics & Communication Engineering Mechanical engineering Mining Engineering i About i FAQ < Disclaimer 莺 Арр K Feedback 🐸 Social 🔺 D Sponsor Contact 🍎 Арр 14 The second



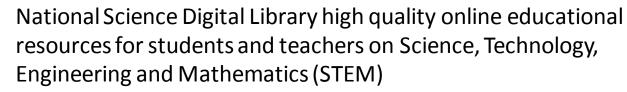












the Physics Classroom has tutorials, simulations and concept builders on Physics for students and teachers



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

	Source	Lovely Professional University (LPU)	
	Content type	Text	
	Publisher	EXCEL BOOKS PRIVATE LIMITED	
Transforming Education Transforming India	File Format	PDF	
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Access Restriction	Subject Domain (in DDC)	Social sciences + Commerce, communications & transportation + Commerce	
Open	Subject Keyword	Commerce Research Methodology	
	Educational Role	Student + Teacher	
Requires : PDF viewer	Learning Resource Type	Syllabus ♦ Synopsis	
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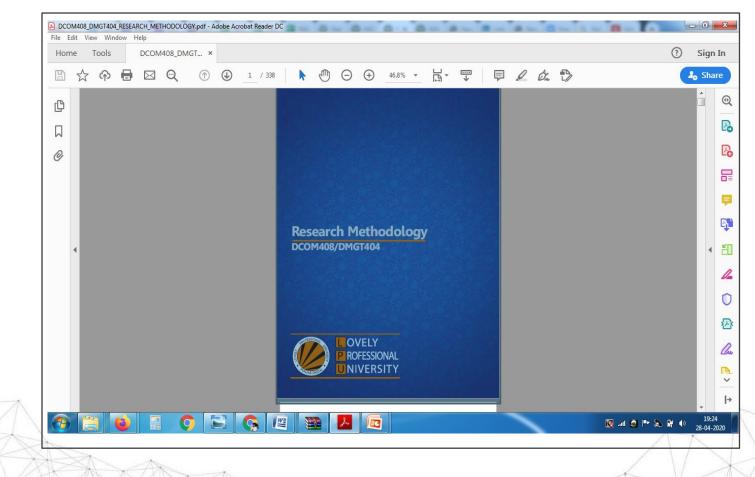
REFINE SEARCH: By Search

Digital Library	Q Search	The Corona Outbreak: Study from home A Languag	je 👻 🚨 Vignesh Sornamohar
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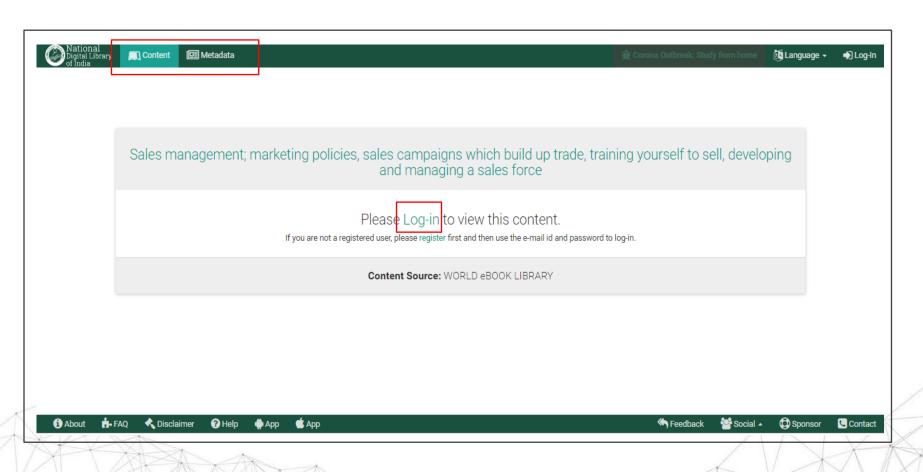
FULL-TEXT: FURTHER PAGES- Sample 1















FULL-TEXT: METADATA PAGE- Sample 1

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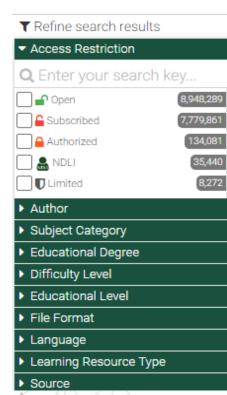
FULL-TEXT: Video Lecture from NPTEL

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		NOC:Geomorphic Processes: Landforms and Landscapes
		NOC:Project Planning & Control(Course sponsored by Aricent)
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FILTER OPTIONS





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Zhang, Wei	6,134
Li, Wei	4,748
Zhang, Y.	4,378
Wang, Jing	4,264
Wang, Lei	4,245
Liu, Yang	4,218
Wang, Y.	4,160
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Religion	10,290
Social sciences	1,296,972
Language	24,502
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Technology	8,536,151
The arts; fine & decorati	35,086
Literature & rhetoric	43,854
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HTM / HTML	2,535,816
MP3	45,464
TSV	35,644
ZIP	33,379
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EPUB	29,034
MP4 / MPG4	9,007
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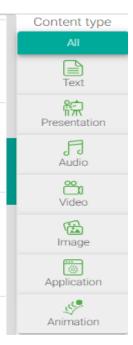
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INDIAN LANGUAGE INTERFACE





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NDLI GUJARATI



INDIAN LANGUAGE INTERFACE







NDLI Mobile App



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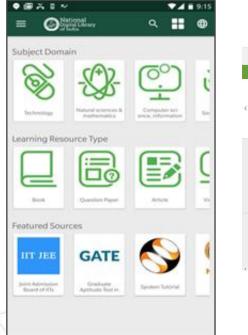
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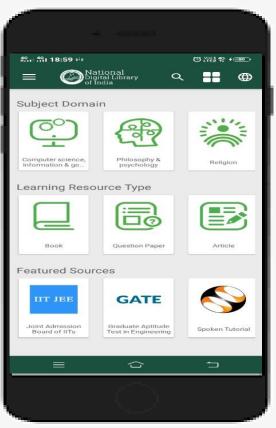
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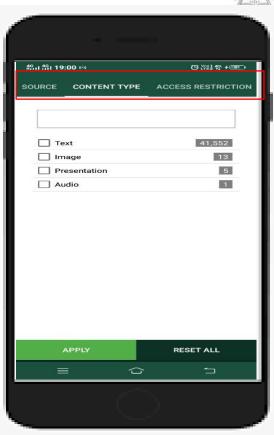


NDLI Mobile App











NDLI Mobile App



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Dalit Movement In Uttar Pradesh Source: Aligarh Muslim University Author: Raja, Ramiz UG and PG

Industrial Planning In Uttar Pradesh Source: Aligarh Muslim University Author: Pal, Indra UG and PG

Development Of Handloom Industry In ... Source: Aligarh Muslim University Author: Ahmad, Adeel UG and PG

Floods in Otter Floods in 0.4424 secs Source: Aligarh Muslim University Author: Khatoon, Rashida







GOOGLEVS. NDLI : HOW IS IT DIFFERENT?







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 4GBRAM.
- 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!



Search Keyword: Magnetism

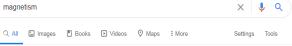




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Results: 1,89,00,000





About 1,89,00,000 results (0.61 seconds)



Magnetism is a class of physical phenomena that are mediated by magnetic fields. Electric currents and the magnetic moments of elementary particles give rise to a magnetic field, which acts on other currents and magnetic moments. Magnetism is one aspect of the combined phenomenon of electromagnetism.

en.wikipedia.org > wiki > Magnetism 💌

Magnetism - Wikipedia

Ø About Featured Snippets Peedback

https://www.google.com/search?q=magnetism&rlz=1C1CHBD_enIN725IN725&sx...



Magnetism

Magnetism is a class of physical phenomena that are mediated by magnetic fields. Electric currents and the magnetic moments of elementary particles give rise to a magnetic field, which acts on other currents and magnetic moments. Magnetism is one aspect of the



Search Keyword: Magnetism



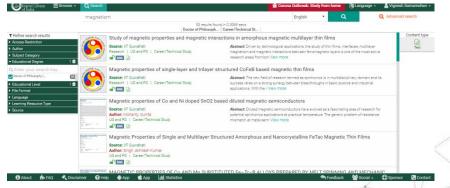
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	-	Magnetism: Explaining Magnetic Properties Source: WatchKnowLearn				Application
		Magnetism: Magnetic Force Fields				

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



Search filter: Career/Technical Paper (219 results)









GOOGLEVS. NDLI

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	GOOGLE	NDLI	Additional Advatages with NDLI
1 Curated Educational Content	×	\checkmark	 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.	×	\checkmark	• The NDLI platforms learns from the users searches and presents more and more relevant data with regular use
4 National Licensing	×	\checkmark	 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





HOW TO OPERATE NDLI CLUB?





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

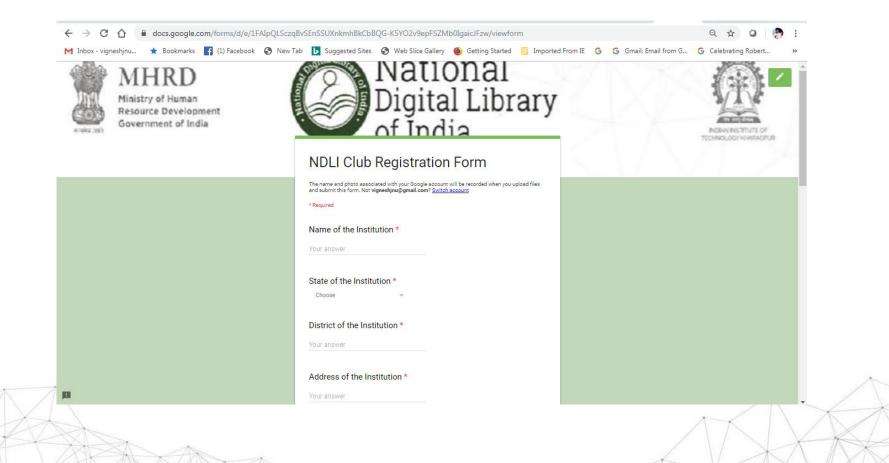
At least 1 student from each Class and 1 faculty member from each Department, with Librarian or Faculty Member of NSS Coordinator as the ex-officio Secretary and Principal as the ex-officio Chairman of the club

NDLI Club Registration

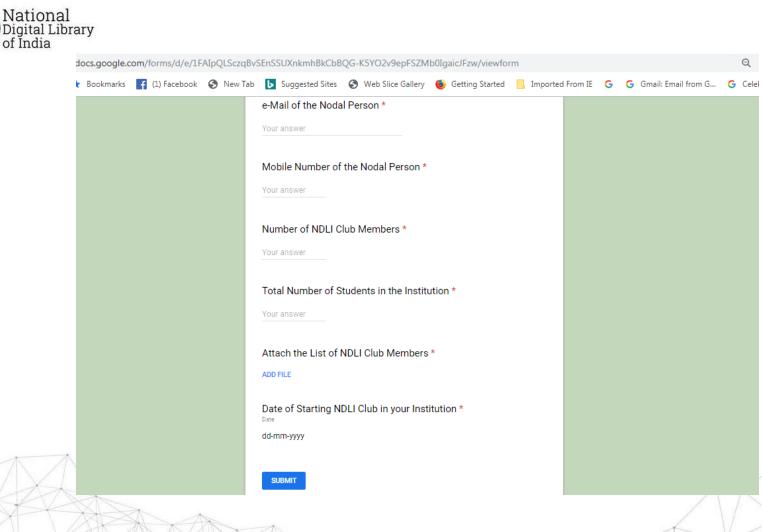
After forming NDLI Club in your institution, you are requested to fill the NDLI Club Registration Form available here: <u>https://goo.gl/forms/ZVxy9GwNQ5Nn4rDz2</u>



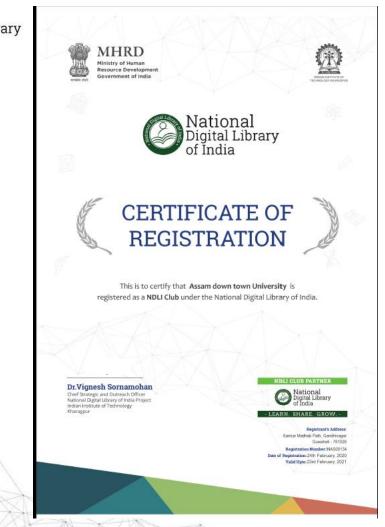












Step 1: Register all the students and faculty members within 30 days of receipt

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





LOG ON TO:

HOW TOREGISTER?

https://ndl.iitkgp.ac.in

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

REGISTRATION TYPE:

- Individual: Registerdirectly
- Bulk Registration: Bulk registration managed by
 Institution overseen by an authenticated nodal
 person









Tools 🔻

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- 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



BULK REGISTRATION PROCESS





INDIVIDUAL REGISTRATION PROCESS

1. Goto 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

Verify Your Email Address

We now need to verify your email address. We've sent an email to exampleaddress@email.com to verify your address. Please click the link in that email to continue.

Need to resend the email, change your address, or get help?

Sign Out

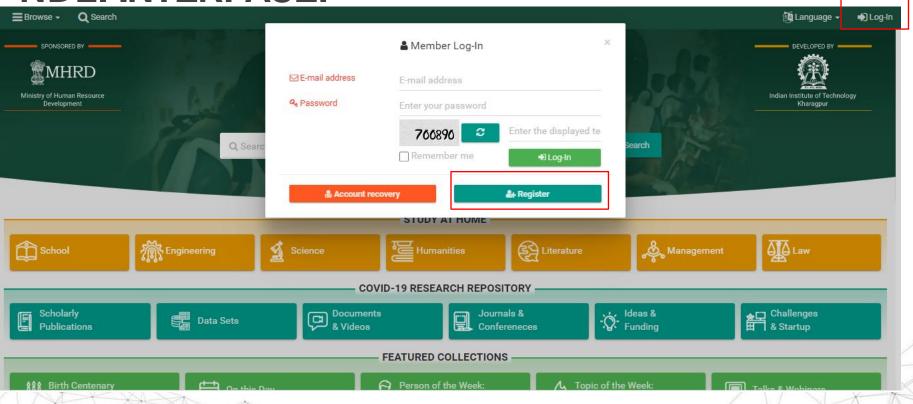




NDLI INTERFACE:

TX A

https://ndl.iitkgp.ac.in







Full name *	First name	Last name
E-mail address *	Enter E-mail address (will be your log-in id)	This mail-id is already registered/added as alternate mail-id. Click here to recover your account.
Password *	Enter your password	
Confirm password *	Enter password again	
Date of birth	Date of birth	
Gender	O Male O Female O Other	
State	Select state 👻	
City	Enter city	
Educational role	Select educational role	
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To prove you are not a bot	Enter the displayed text	
	□ I have read, understood and agree to the Terms and Conditions 0	f using NDL India.
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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: <u>https://goo.gl/forms/qYtUTyWtJJeccqKt2</u>

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















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







LET'S GET STARTED





Dedicated to the Nation.

Together, let us #LearnShareGrow

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

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



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