

Transforming Education in COVID Time

08-JULY-2020

One Library.
All of India.



Webinar organized by:

P N Panicker
National Reading / Digital
Reading Month Celebrations
and
National Digital Library of India



Presented by

Prof. PARTHA PRATIM DAS
Professor, Computer Science & Engineering
Indian Institute of Technology Kharagpur
ppd@cse.iitkgp.ac.in



Transforming Education in COVID Time

Prof. Partha Pratim Das

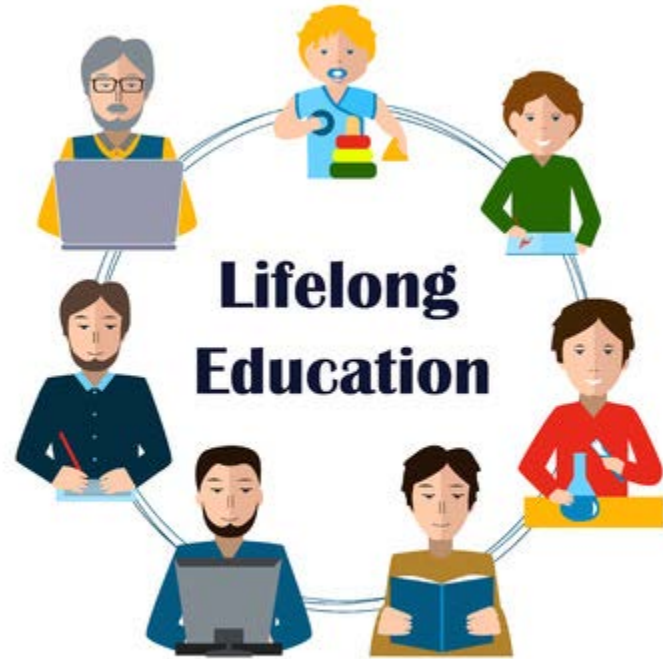
ppd@cse.iitkgp.ac.in

Professor, Department of Computer Science & Engineering,
Joint Principal Investigator, National Digital Library of India Project
Indian Institute of Technology Kharagpur



Any Nation's NEED Today

Quality Life-Long Education and Knowledge for
ANYONE, ANYTIME, ANYWHERE



Background



- Through brick and mortar institutions alone, difficult to provide quality education to anybody, anytime, anywhere
- Need effective use of **Digital technology** to handle the situation
- An integrated, **Open & Inclusive, Digital Library** of a nation is an enabler of the Digital eco-system for education
- A **Digital Library** of a nation is also an all encompassing Knowledge Repository that is a **Knowledge & Cultural Asset** of the nation

MOTTO



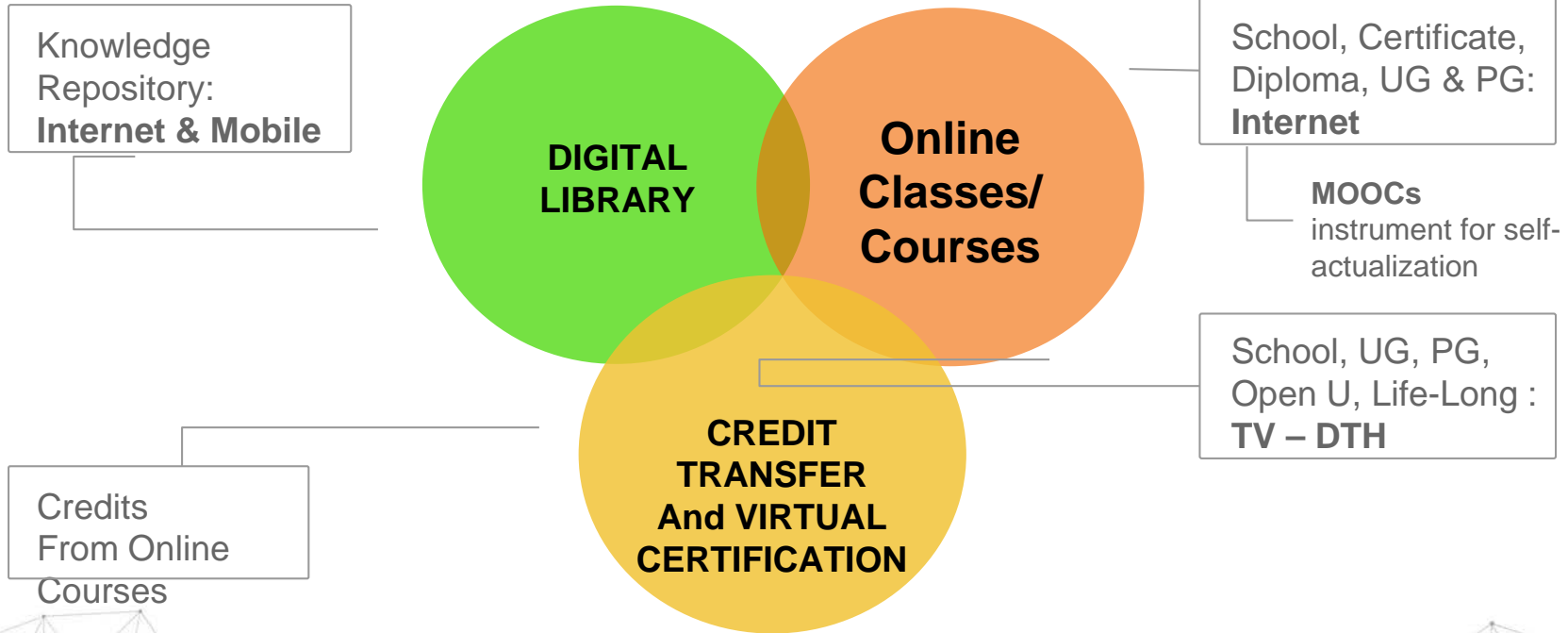
Open



Inclusive



Digital Ecosystem for Education



Ministry of Human Resource Development (MHRD), Govt. of India, driving digital learning and virtual institution culture India

MHRD entrusted IIT Kharagpur to develop National Digital Library of India (NDLI)



4.8CR+ Content || 300+ Languages || 270+ Sources || 30 Lakh+ Users

What is NDLI?



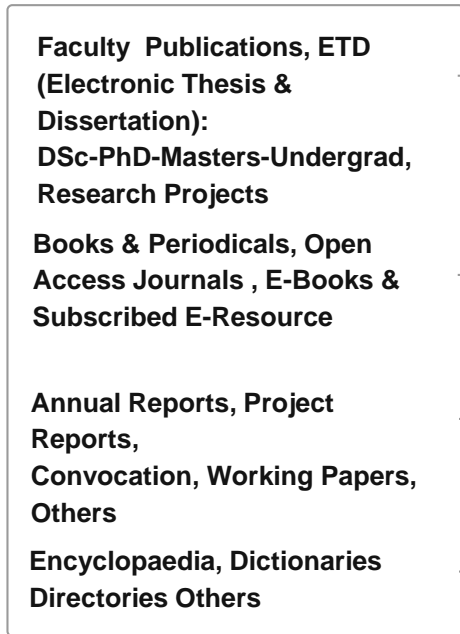
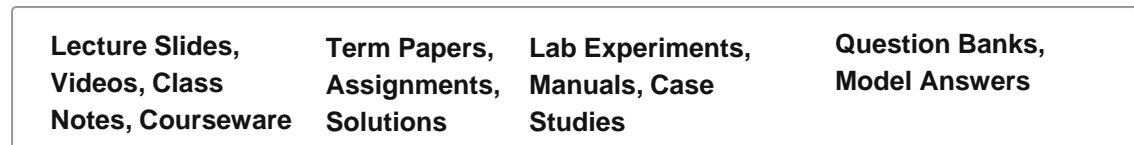
- A 24X7-enabled Umbrella Digital Library: Integrated **centralized access to e-contents** hosted by different institutes/organizations
- A **Single window search/browse** facility
- Covers **all academic levels, all disciplines**
- Domain vertical-wise organization/presentation: **School, Career Development, Law, Medical, etc.**
- Hosts multi-media contents: **Text, Video, Audio, Image, Simulation, Animation, etc.**
- Nationally licensed contents: **Can be accessed free through NDLI**
- Facility available for institutes/organizations to disseminate e-contents which are under their exclusive control: **IDR (Institutional Digital Repository) Service**

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



ONE LIBRARY
ALL OF INDIA

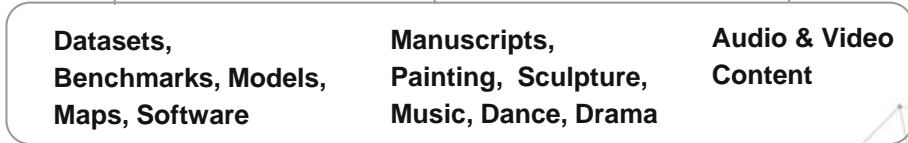


Research and Professional
Institutions, Central / State University

Institutions of School & Higher Education, Boards

**Digital Repository of
Contributing Institutes**

Institutional and Open Contributions.
Multi-modal, Multi-faceted



RANGE OF CONTENTS

Uniqueness and Reach



Single window multi-lingual search and access

No need to visit individual sites

Covers entire spectrum of learners

Primary to highest level including life-long learners
All domains of education

Can handle content of any language

Contains contents of all major Indian languages

Indian language User Interface

Available in Hindi, Gujarati, Marathi, Tamil, Telugu,
Kannada, Malayalam, Bengali, Odiya & Assamese

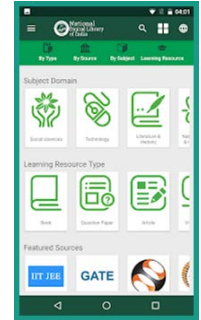
Personalization

Search results filtered/ranked as per user profile

Collaborative learning environment

Enabler for virtual institution/certification

- **Participating Institutes: 15,000+**
- **User Base: 30 lakh+**
- **Average daily hits: 1 lakh+**
- **Content**
 - **Items: 480 lakh+**
 - **Sources: 270+**
 - **IDR Sources: 120+**



**WINNER: GEMS of
DIGITAL INDIA 2019**
for excellence in
eGovernance



**WINNER mBillionth South
Asia Award 2017: in
Learning and Education
Category for Android Mobile**

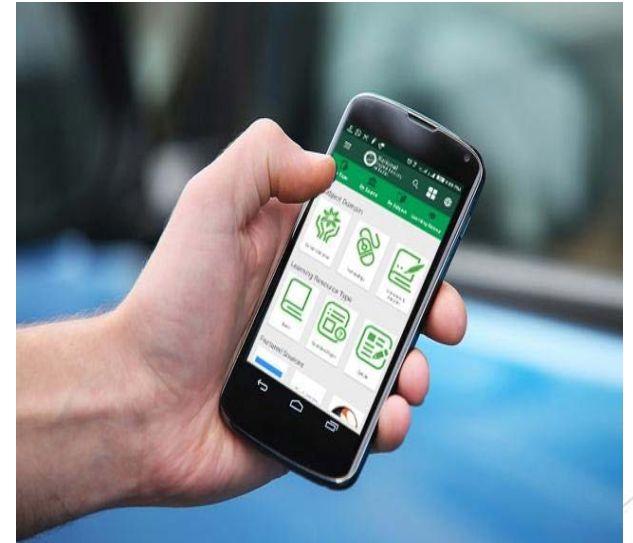
App

NDLI: The Library

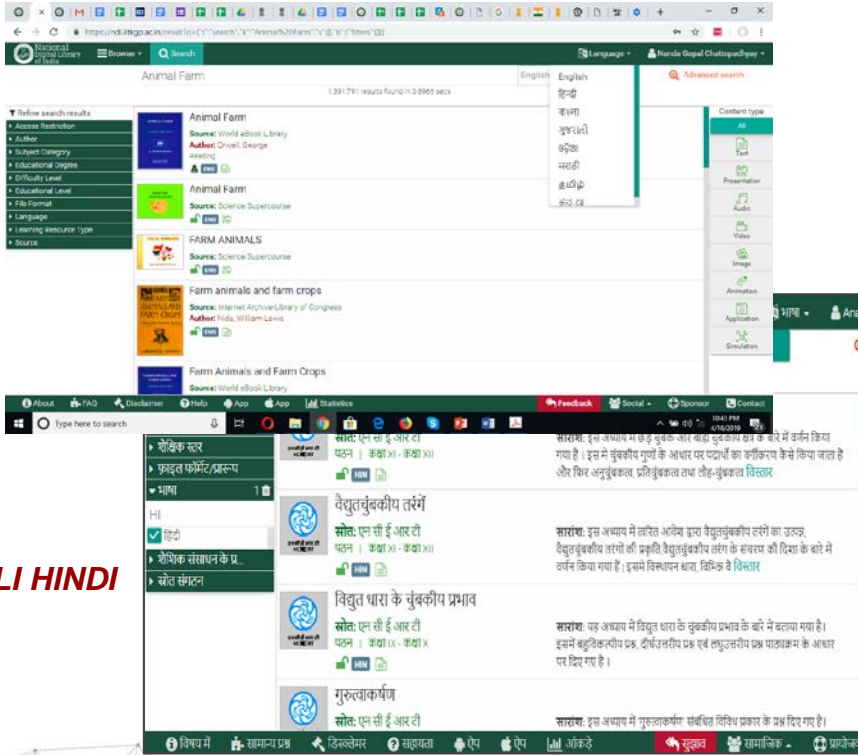


Web App
(<https://ndl.iitkgp.ac.in/> or
<https://www.ndl.gov.in>)

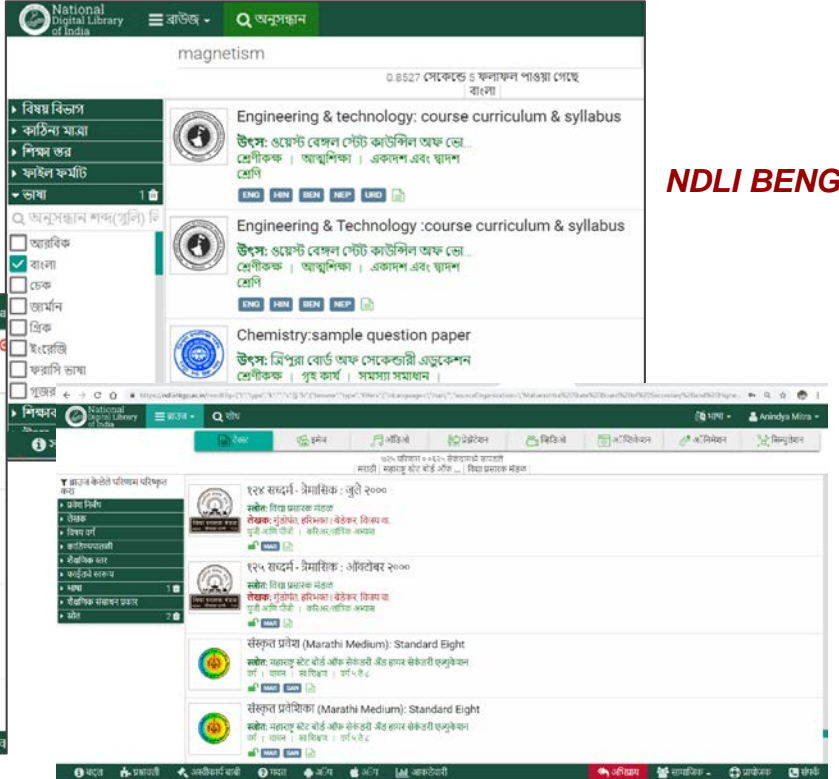
Mobile App
(Google™
PlayStore)



INDIAN LANGUAGE INTERFACE: EXPLORE IN PREFERRED LANGUAGE

NDLI HINDI



NDLI BENGALI

NDLI MARATHI

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 all contents, it only ingests metadata for Search & Browse. The content (Full-text) is delivered from Source.

Access Options


	Open Full-text available to all (Example: NCERT)
	NDL Users Full-text available through NDLI, <i>not directly</i> 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)




Methodology of educational research
Source: Institute for Social and Economic Change
Author: Good, Carter V. | Barr, A. S. | Scates, Douglas E.
 Reading
 



Aging Research - Methodological Issues
Source: Springer-eBooks
 Reading

Research methodology in social science
Source: Institute for Social and Economic Change
 Reading
  



Access Rights-wise Content

Open	27,583,745
Subscribed	95,65,577
NDLI	77,94,095
Limited	3,192,845
Authorized	408,551

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

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

Total volume: 3.5 Crore (As on May 28, 2020)

- **Book: 61.5 lakh**
- **Article: 1.77 crore**
- **Journals & Proceedings: 2.9 lakh**
- **Thesis: 6.26 lakh**
- **Video lecture: 3.65 lakh**
- **Audio book: 2.19 lakh**
- **Questions, Question Papers/Sets, Quizzes, Exercises & Solutions: 1.32 lakh**
- **Web course: 17 thousand**
- **Simulation: 17 thousand**

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

Navigation: [Browse](#) | [Search](#) | Language: [English](#) | User: [Vignesh Sornamohan](#)

SPONSORED BY: MHRD Ministry of Human Resource Development

DEVELOPED BY: an Institute of Technology Kharagpur

National Digital Library of India
One Library All of India

Search: Nigerian Literature | English | [Search](#)

Language Dropdown: English, हिन्दी, বাংলা, অসমীয়া, ગુજરાતી, ଓଡ଼ିଆ, मराठी, தமிழ்

STUDY AT HOME

- School
- CBSE Examination Preparatory **NEW**
- Engineering
- Science
- Humanities
- Literature
- Law & Management

COVID-19 RESEARCH REPOSITORY

- Scholarly Publications
- Data Sets
- Documents & Videos
- Journals & Conferenees
- Ideas & Funding
- Challenges & Startup

FEATURED COLLECTIONS

- Birth Centenary of Satyajit Ray
- On this Day
- Person of the Week: Dr. Subrahmanyam Gorthi
- Topic of the Week: Cyclonic Storms
- Talks & Webinars

Study from Home

Spreading Education without spreading Corona Virus

STUDY AT HOME



School



CBSE Examina...
Preparatory ...



Engineering



Science



Humanities



Literature

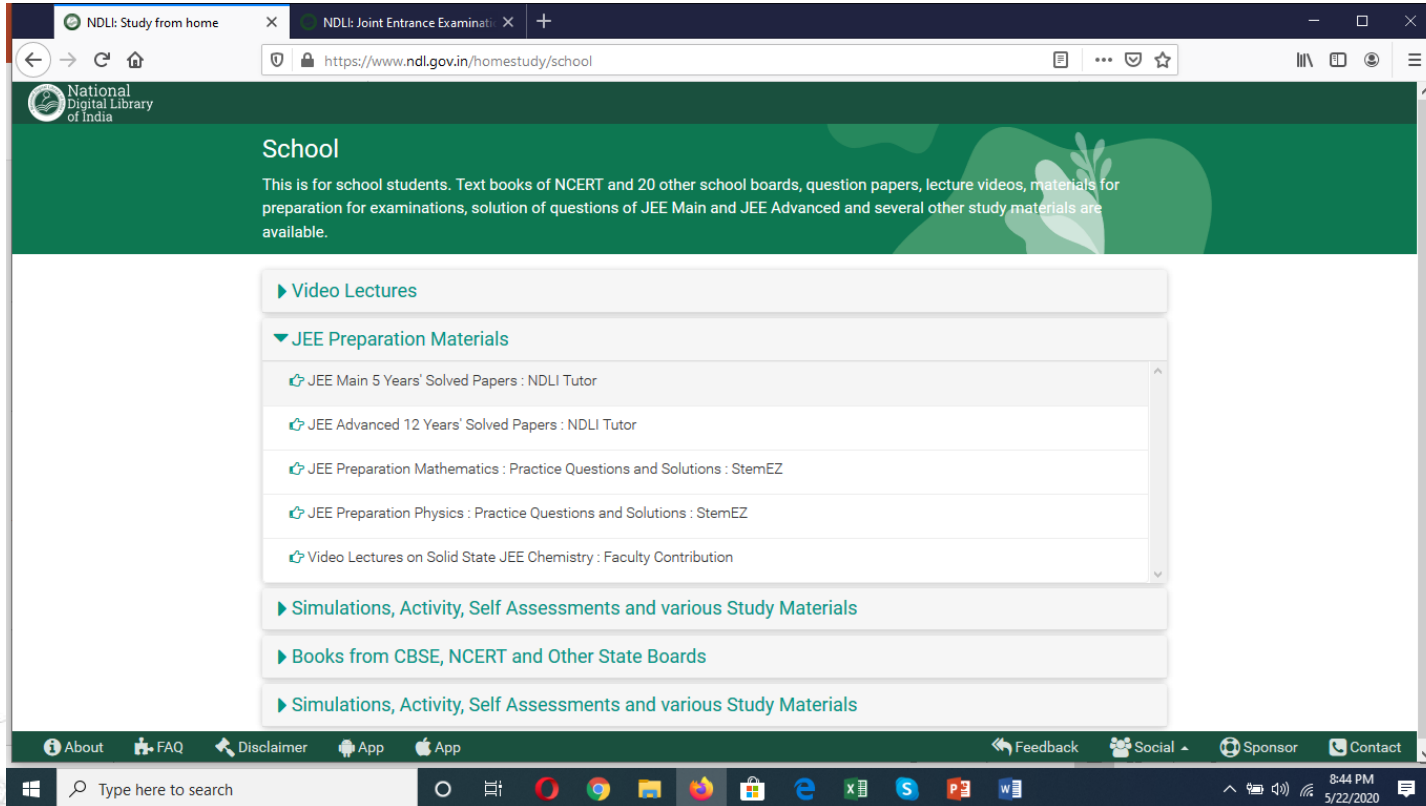


Law &
Management



How to Study from Home During Coronavirus Outbreak?

Study at Home: School students



The screenshot shows a web browser window with the URL <https://www.ndli.gov.in/homestudy/school>. The page features a green header with the text "School" and a sub-header "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." Below this, there are several expandable menu items:

- ▶ Video Lectures
- ▼ JEE Preparation Materials
 - ▶ JEE Main 5 Years' Solved Papers : NDLI Tutor
 - ▶ JEE Advanced 12 Years' Solved Papers : NDLI Tutor
 - ▶ JEE Preparation Mathematics : Practice Questions and Solutions : StemEZ
 - ▶ JEE Preparation Physics : Practice Questions and Solutions : StemEZ
 - ▶ Video Lectures on Solid State JEE Chemistry : Faculty Contribution
- ▶ Simulations, Activity, Self Assessments and various Study Materials
- ▶ Books from CBSE, NCERT and Other State Boards
- ▶ Simulations, Activity, Self Assessments and various Study Materials

The footer of the page includes links for About, FAQ, Disclaimer, App, Feedback, Social, Sponsor, and Contact. The Windows taskbar at the bottom shows the time as 8:44 PM on 5/22/2020.



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



CBSE School Content for Class 6 to 12, NEET Preparation Materials, and English Grammar



Scientific funhouse and experimental laboratory for school children



TED Ed has animated videos and lectures on ideas that spark teachers and students



Video lectures from experts on any topics for students and teachers

Computer Science programming language video lectures



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



NDLI Tutor for JEE Main and Advanced Preparation Materials and Solved Papers



StemEZ - JEE Preparation Materials and STEM Materials



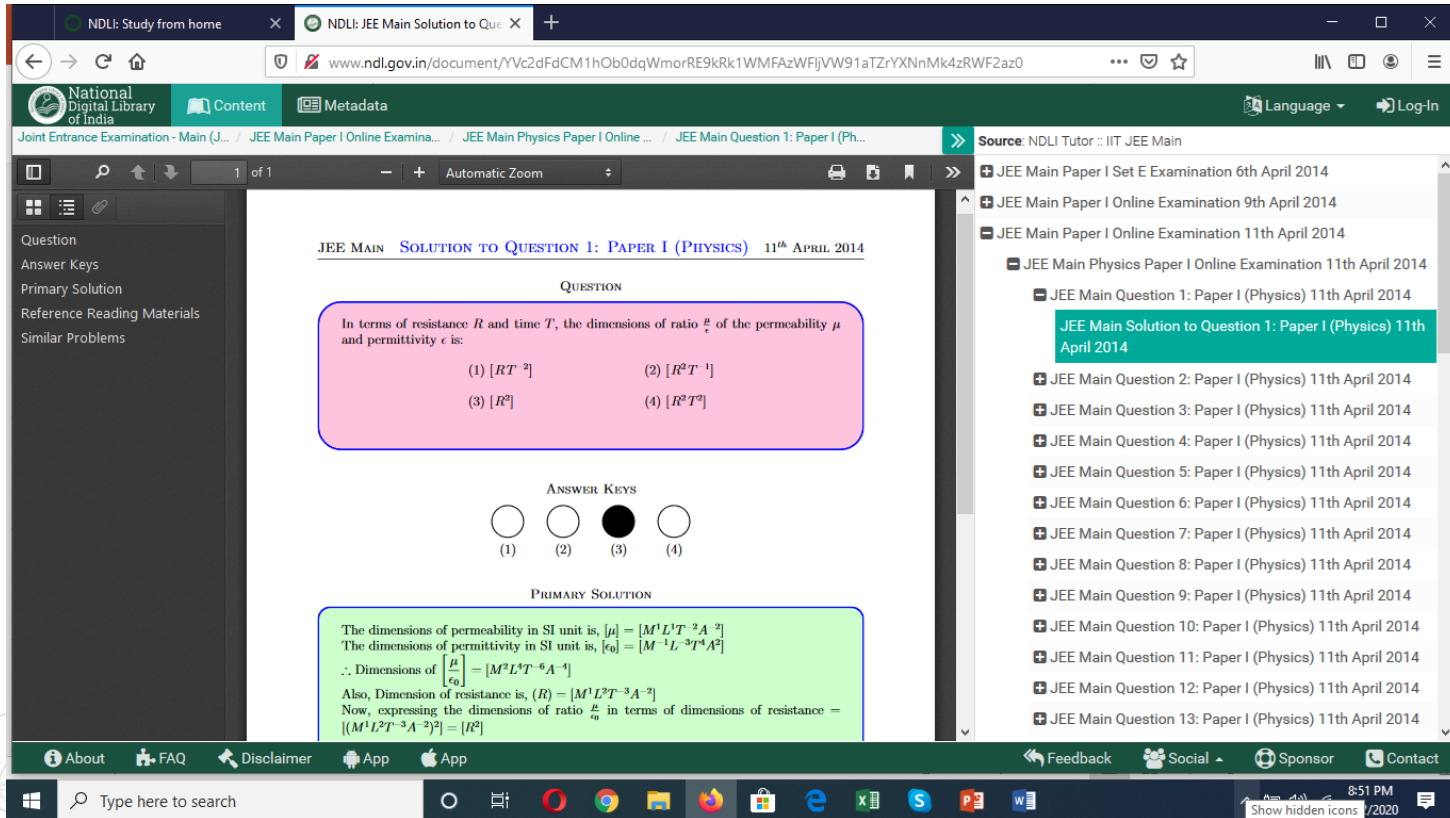
PhET Simulations on science and mathematics for students and teachers



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

Study at Home: School students: JEE Main Questions & Solutions



The screenshot displays a web browser window with the URL www.ndli.gov.in/document/YVc2dFdCM1hOb0dqWmorRE9kRk1WMFAzWfjVW91aTZrYXNnMk4zRWF2az0. The page title is "JEE MAIN SOLUTION TO QUESTION 1: PAPER I (PHYSICS) 11th APRIL 2014".

QUESTION

In terms of resistance R and time T , the dimensions of ratio $\frac{\mu}{\epsilon_0}$ of the permeability μ and permittivity ϵ_0 is:

(1) $[RT^{-2}]$ (2) $[R^2T^{-1}]$
 (3) $[R^2]$ (4) $[R^2T^2]$

ANSWER KEYS

(1) (2) (3) (4)

PRIMARY SOLUTION

The dimensions of permeability in SI unit is, $[\mu] = [M^1L^1T^{-2}A^{-2}]$
 The dimensions of permittivity in SI unit is, $[\epsilon_0] = [M^{-1}L^{-3}T^4A^2]$
 \therefore Dimensions of $\left[\frac{\mu}{\epsilon_0}\right] = [M^2L^4T^{-6}A^{-4}]$
 Also, Dimension of resistance is, $[R] = [M^1L^2T^{-3}A^{-2}]$
 Now, expressing the dimensions of ratio $\frac{\mu}{\epsilon_0}$ in terms of dimensions of resistance = $[(M^1L^2T^{-3}A^{-2})^2] = [R^2]$

The right sidebar contains a list of navigation links, with "JEE Main Solution to Question 1: Paper I (Physics) 11th April 2014" highlighted in green. Other links include "JEE Main Paper I Set E Examination 6th April 2014", "JEE Main Paper I Online Examination 9th April 2014", and "JEE Main Paper I Online Examination 11th April 2014".

CBSE Examination Preparation Contents

Class X

[By
Source](#)[By
Content Type](#)[By
Subject](#)

Class XII

[By
Source](#)[By
Content Type](#)[By
Subject](#)

About this collection

This specially curated collection is for the students appearing for Class-X and Class-XII examination. It contains books, notes, questions, solutions, video lectures etc. on all subjects from Government bodies, Kendriya Vidyalayas and Non-Government organizations. Students can access useful contents at a single place and thus save time.

How to use

You can get to the contents in three ways:

- **By Source:** use this if you are looking for contents from a known body like NCERT, CBSE Board, Diksha, Kendriya Vidyalayas, ExamFear etc.
- **By Content Type:** use this if you are looking for specific types of contents like Questions, Solutions, Video Lectures, Books, etc.
- **By Subject:** use this if you are looking for contents on a subject of your syllabus, such as Mathematics, Biology, English, Sanskrit

Class X CBSE Examination Preparation Contents: Subject-wise

By Source

By Content Type

By Subject



Question Paper, Self Test

Accountancy



Book, Notes, Question Paper...

Biology



Question Paper, Self Test

Business Studies



Book, Notes, Question Paper...

Chemistry



Book, Notes, Question Paper...

Common Items



Book, Question Paper, Soluti...

Computer Applications



Question Paper, Self Test

Computer Science



Book, Notes, Presentation, ...

Economics



Audio, Book, Notes, Present...

English



Book, Notes, Presentation, ...

Geography



Audio, Book, Notes, Present...

Hindi



Book, Notes, Presentation, ...

History



Question Paper, Self Test

Home Science



Question Paper

Informatics Practices



Book, Notes, Presentation, ...

Mathematics



Video

Multiple



Book, Question Paper, Self T...

Others



Book, Notes, Presentation, ...

Physics

By Source

By Content Type

By Subject



Book, Notes, Presentation, Questio...

Accountancy



Audio, Book, Notes, Presentation, Q...

Biology



Book, Notes, Presentation, Questio...

Business Studies



Audio, Book, Notes, Presentation, Q...

Chemistry



Book, Notes, Question Paper, Soluti...

Common Items



Book

Computer Applications



Book, Notes, Presentation, Questio...

Computer Science



Book, Notes, Presentation, Questio...

Economics



Audio, Book, Notes, Presentation, Q...

English



Book, Notes, Presentation, Questio...

Geography



Audio, Book, Notes, Presentation, Q...

Hindi



Book, Notes, Presentation, Questio...

History



Book, Notes, Question Paper

Home Science



Book, Notes, Question Paper, Self T...

Informatics Practices



Audio, Book, Notes, Presentation, Q...

Mathematics



Video

Multiple



Video

Multiple



Book, Notes, Presentation, Questio...

Others



Book, Notes, Question Paper, Soluti...

Physical Education



Audio, Book, Notes, Presentation, Q...

Physics



Book, Notes, Presentation, Questio...

Political Science



Book, Notes, Question Paper, Soluti...

Psychology



Book, Notes, Question Paper, Soluti...

Sanskrit



Audio, Book, Notes, Question Paper,...

Science



Audio, Book, Question Paper, Self T...

Social Science



Book, Notes, Question Paper, Soluti...

Sociology



Book, Notes, Question Paper

Urdu

Metamorphosis

Transforming school education digitally



Vivek Choudhary

Rajiv Agarwal

Indrani Sanyal

Dinar a

Abhishek Kumar Yad...

Abhishek Rungta

Nirmala Sankaran

PPC

Krishna Damani

Salonyummeed pri...

Partha Das

Plaban

Dr. Biswasasaha

Abbas G

zoom

-2:02:11



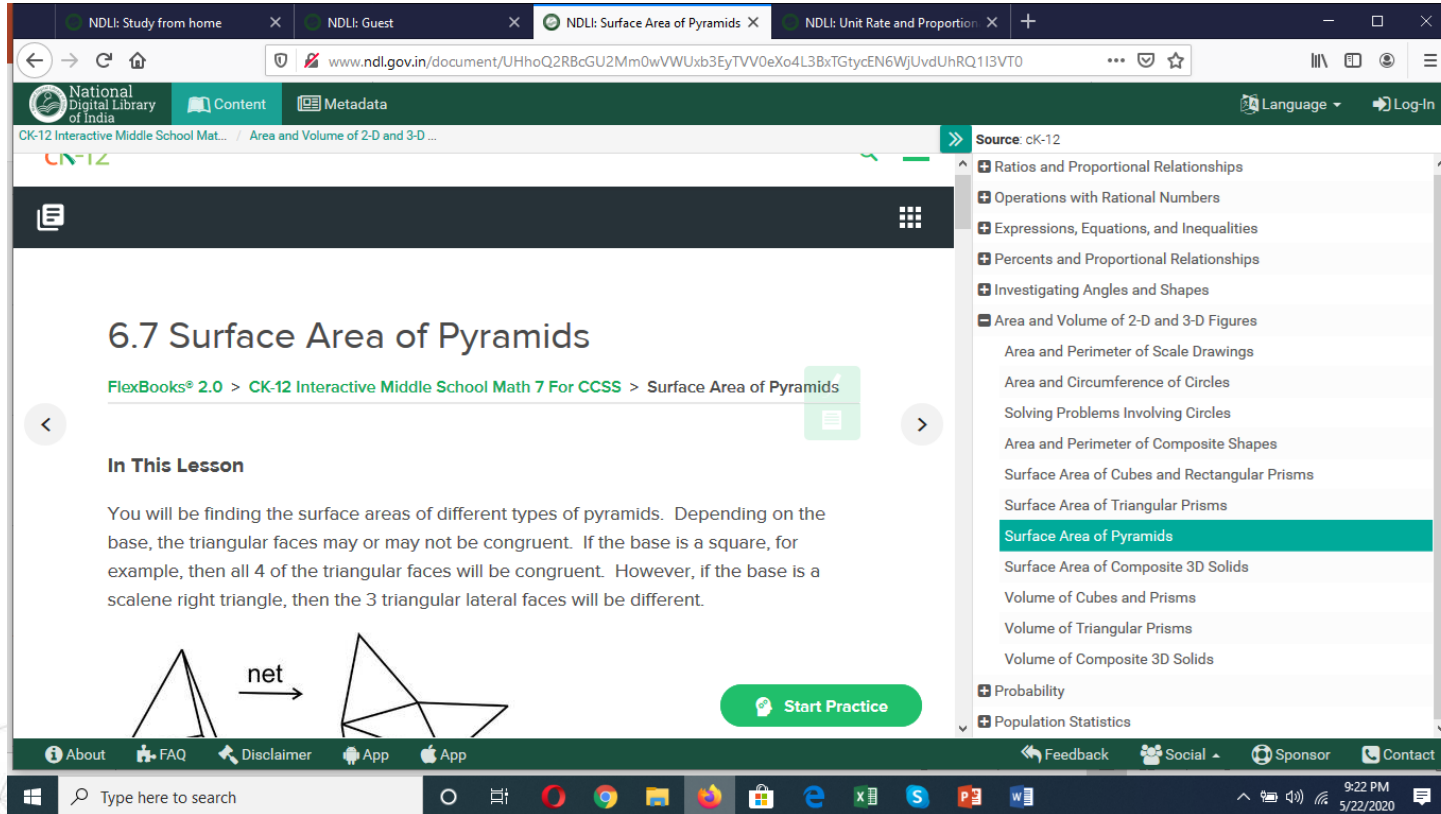
Study at Home: School students: Video Lectures

The screenshot shows a web browser window displaying a video lecture page on the National Digital Library of India (NDLI) website. The page title is "NEET : Genetics" and the video title is "Alleles & Types of Inheritance". The video player interface includes a "Watch later" button and a "Share" button. The sidebar menu on the right lists the following items:

- Class 9
- Class 10
- Class 11
- Class 12
- NEET Biology
 - Genetics
 - Genetics : Alleles and Types of Inheritance
 - Genetics : Monogenic / Mendelian Inheritance
 - Genetics : Polygenic Inheritance (Human Skin Color)
 - Genetics : Polygenic Inheritance (Wheat Kernel Experiment)
 - Genetics : Polygenic Inheritance does not follow Mendelian Ratio
 - Genetics : Polygenic vs Monogenic, Polygenic and Environment
 - Genetics : Pleiotropy (Sickle Cell Disease)
 - Genetics : Albinism (Genetics of OCA)
 - Genetics : Genetics of Localized (Ocular) Albinism
 - Genetics : Mendelian disorders
 - Genetics : Mendelian Disorder (Autosomal Recessive, X-lined Dominant and Recessive)

The video player interface also features a "Watch later" button and a "Share" button. The video title "Alleles & Types of Inheritance" is displayed in large red text. The video player interface includes a "Watch later" button and a "Share" button. The video player interface includes a "Watch later" button and a "Share" button.

Study at Home: School students: Activity oriented learning



The screenshot shows a web browser window displaying the NDLI website. The browser tabs include "NDLI: Study from home", "NDLI: Guest", "NDLI: Surface Area of Pyramids", and "NDLI: Unit Rate and Proportion". The address bar shows the URL: www.ndli.gov.in/document/UHhoQ2RbcGU2Mm0wVWUxb3EyTVV0eXo4L3BxTGtycEN6WjUvdUhrQ113VTO. The website header includes the National Digital Library of India logo, navigation links for "Content" and "Metadata", and a "Log-In" button. The main content area is titled "6.7 Surface Area of Pyramids" and includes a breadcrumb trail: "FlexBooks® 2.0 > CK-12 Interactive Middle School Math 7 For CCSS > Surface Area of Pyramids". Below the title, the text reads: "In This Lesson You will be finding the surface areas of different types of pyramids. Depending on the base, the triangular faces may or may not be congruent. If the base is a square, for example, then all 4 of the triangular faces will be congruent. However, if the base is a scalene right triangle, then the 3 triangular lateral faces will be different." A diagram shows a 3D pyramid on the left and its corresponding 2D net on the right, with an arrow labeled "net" pointing from the pyramid to the net. A green "Start Practice" button is located at the bottom right of the lesson content. On the right side of the page, there is a table of contents menu with the following items: "Ratios and Proportional Relationships", "Operations with Rational Numbers", "Expressions, Equations, and Inequalities", "Percents and Proportional Relationships", "Investigating Angles and Shapes", "Area and Volume of 2-D and 3-D Figures" (expanded), "Area and Perimeter of Scale Drawings", "Area and Circumference of Circles", "Solving Problems Involving Circles", "Area and Perimeter of Composite Shapes", "Surface Area of Cubes and Rectangular Prisms", "Surface Area of Triangular Prisms", "Surface Area of Pyramids" (highlighted), "Surface Area of Composite 3D Solids", "Volume of Cubes and Prisms", "Volume of Triangular Prisms", "Volume of Composite 3D Solids", "Probability", and "Population Statistics". The footer of the website includes links for "About", "FAQ", "Disclaimer", "App", "Feedback", "Social", "Sponsor", and "Contact". The Windows taskbar at the bottom shows the search bar and various application icons, with the system tray displaying the time as 9:22 PM on 5/22/2020.



Study at Home: College students: Engineering

NDLI: Study from home

NDLI: BASIC TRANSISTOR CIRC

www.ndli.gov.in/document/bnZnR2hPaUVqRU9TbFc2Rmp1MVJzNUplUEtBNXgxYURFd09aaVhHOXd3RT0

National Digital Library of India

Content Metadata

Language Log-In

StemEZ / Technology & Engineering / Electronics / BASIC TRANSISTOR CIRCUITS

Source: StemEZ

Science

- Technology & Engineering
 - Electrical Circuits
 - Electronics
 - FUNDAMENTAL SEMICONDUCTOR DEVICES
 - ANALOG DIODE CIRCUITS
 - BASIC TRANSISTOR CIRCUITS**
 - Essentials for BASIC TRANSISTOR CIRCUITS
 - PROBLEM 03 - 0141: Inverter
 - PROBLEM 03 - 0142: Inverter
 - PROBLEM 03 - 0143: Inverter
 - PROBLEM 03 - 0144: Inverter
 - PROBLEM 03 - 0145: Inverter
 - PROBLEM 03 - 0146: Inverter
 - PROBLEM 03 - 0147: Inverter
 - PROBLEM 03 - 0148: Inverter
 - PROBLEM 03 - 0149: Inverter
 - PROBLEM 03 - 0150: Inverter
 - PROBLEM 03 - 0151: Inverter

CONTENTS CHAPTER PREVIOUS NEXT PREP FIND

CHAPTER 03: BASIC TRANSISTOR CIRCUITS

- [Inverter](#)
- [Common-Emitter Amplifier](#)
- [Emitter-Follower](#)
- [Common-Base Amplifier](#)
- [Bias Stability And Compensation](#)
- [Miscellaneous Bjt Circuits](#)
- [Common-Source Jfet Amplifier](#)
- [Common-Drain Jfet Amplifier](#)
- [Mosfet Amplifiers](#)

[Essentials](#)

Inverter

PROBLEM 03 - 0141: The circuit below consists of a general inverter connected to a load. Suppose the range of logical 1 is defined to be 4 to 5V. Determine the restriction, if any, on R_L in order that the output be 1 when the input voltage v_1 is zero

$V_{CC} = 5V$
 $R_C = 5k\Omega$

[About](#) [FAQ](#) [Disclaimer](#) [App](#) [App](#) [Feedback](#) [Social](#) [Sponsor](#) [Contact](#)

Type here to search

9:32 PM 5/22/2020

Special services available in NDLI

Study at Home: College students: Science: NPTEL lectures

The screenshot displays a web browser window with the following elements:

- Browser Address Bar:** www.ndli.gov.in/document/QXBqK1czOUpyM3FlamVjTmREMWFESIFIQ1FySFNH50xwMWFkMTI4dWtpdFfaamt3aXFuNl
- Page Header:** National Digital Library of India, Content, Metadata, Language, Log-In
- Breadcrumbs:** NPTEL / Mathematics / Advanced Matrix Theory and Line... / Inner Product and Orthogonality
- Source:** NPTEL
- Navigation Menu:**
 - Linear Systems
 - Vector Spaces
 - Linear Independence and Subspaces
 - Basis
 - Linear Transformations
 - Inner Product and Orthogonality
 - Inner Product and Orthogonality Part 1** (selected)
 - Inner Product and Orthogonality Part 2
 - Inner Product and Orthogonality Part 3
 - Inner Product and Orthogonality Part 4
 - Inner Product and Orthogonality Part 5
 - Inner Product and Orthogonality Part 6
 - Diagonalization
 - Hermitian and Symmetric matrices
 - Singular Value Decomposition (SVD)
 - Back To Linear Systems
 - Epilogue
 - A Basic Course in Real Analysis
 - Analysis of variance and design of experiment-II
- Video Player:**
 - Title: Inner Product and Orthogonality Part 1
 - Handwritten notes on a whiteboard:
 - are orthogonal to x
 - $u = \begin{pmatrix} u_1 \\ u_2 \\ u_3 \\ u_4 \end{pmatrix}$ orth to x
 - $\Leftrightarrow (x, u) = 0$
 - $\Leftrightarrow u_1 + u_2 + u_3 + u_4 = 0$
 - $\Leftrightarrow u$ must be of the form $\begin{pmatrix} \alpha \\ \beta \\ \gamma \\ -\alpha - \beta - \gamma \end{pmatrix}, \alpha, \beta, \gamma \in \mathbb{R}$
- Footer:** Feedback, Social, Sponsor, Contact
- System Tray:** 9:40 PM, 5/22/2020

Covid -19 Research

Promoting Covid-19 Research

COVID-19 RESEARCH REPOSITORY

Scholarly
Publications

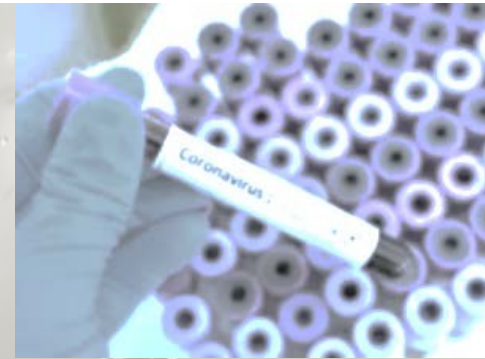
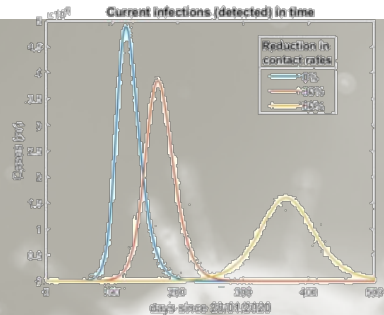
Data Sets

Documents
& Videos

Journals &
Confereneecs

Ideas &
Funding

Challenges
& Startup



Scholarly Publications

The screenshot shows a web browser window with the URL <https://www.ndli.gov.in/corona-research/scholarly>. The page features a green header with the NDLI logo and the title "Scholarly Publications". Below the header, there is a descriptive paragraph about the repository's content, followed by a search bar and a list of publication sources.

Scholarly Publications

These are publications in high quality peer-reviewed journals/conferences collected from publishers' COVID pages and blogs, indexing pages with COVID, preprint archives, and open search of Web and other collections. Besides papers on biological, medical, and health aspects of COVID-19, papers on COVID-19 induced problems, challenges and opportunities in all facets of life (like Online Learning, Video Conferencing, etc.) are also included.

This will help the researcher quickly locate related prior research and open issues.

Search within the Repository

Enter your search key...

Suggest a Resource

Publications (32,629 resources)

- ACM Digital Library [COVID-19] (24 resources)
- Cambridge University Press (CUP) [COVID-19] (337 resources)
- Cell Press [COVID-19] (31 resources)
- ChemRxiv::COVID-19 (383 resources)

Footer: About, FAQ, Disclaimer, App, Feedback, Social, Sponsor, Contact



COVID-19 Research Resources Repository

- **Scholarly Publications**
- **Data Sets**
- **Documents and Videos**
- **Journals and Conferences**
- **Ideas and Funding**
- **Challenges and Startup**




Featured Collections

Attractions

FEATURED COLLECTIONS

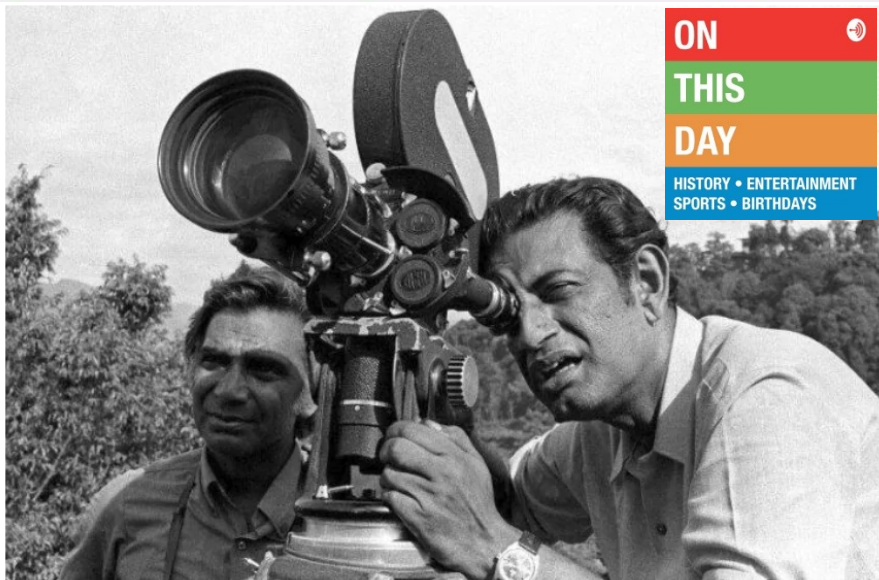
 Birth Centenary of
Satyajit Ray

 On this Day

 Person of the Week:
Dr. Sandeep Anand

 Topic of the Week:
Eclipse

 Talks & Webinars



Person of the Week





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: <https://goo.gl/forms/ZVxy9GwNQ5Nn4rDz2>

LOG ON TO :

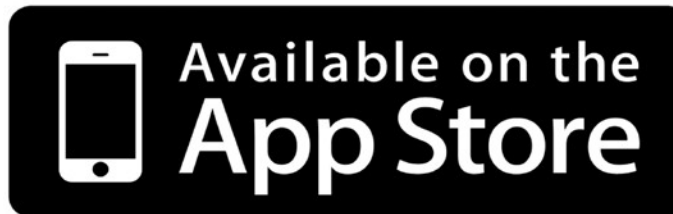
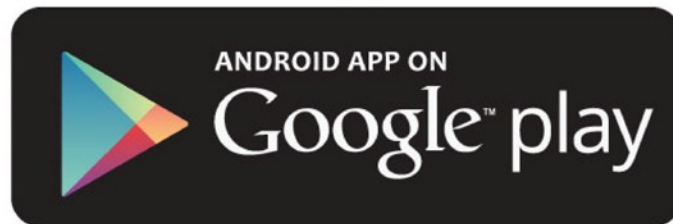
<https://ndl.iitkgp.ac.in>

HOW TO REGISTER?

- 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



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

08-Jul-2020

PPD, NDLI





Please visit:

<https://ndl.iitkgp.ac.in/>

or

Download Mobile App from Google
PlayStore

Thank you

#LearnShareGrow



@NDLIndia