



# E-Learning

(MOOCs & Learning Management Systems)

&

# Impact of Technology on Libraries

D. P. Tripathi

# Who am I?



## **Dhanwantari Prakash Tripathi (DP Tripathi)**

Assistant Librarian  
National Institute of Technology  
Rourkela, Odisha

E – [dptnitrkl@gmail.com](mailto:dptnitrkl@gmail.com)

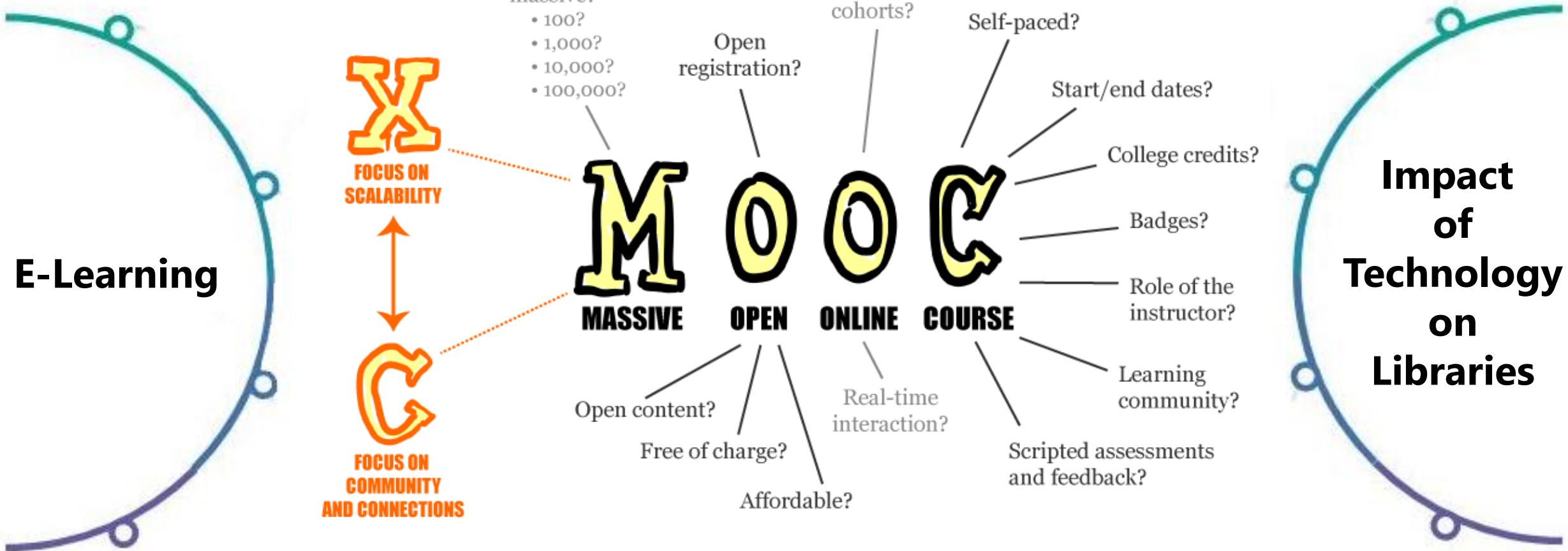
M – 8895296796 / 9079381069

W – [www.dpatripathi.co.in](http://www.dpatripathi.co.in)

YT – [www.youtube.com/c/librarianguide](https://www.youtube.com/c/librarianguide)

T – <http://t.me/librarianguide>

FB – [www.facebook.com/tripathidp](https://www.facebook.com/tripathidp)





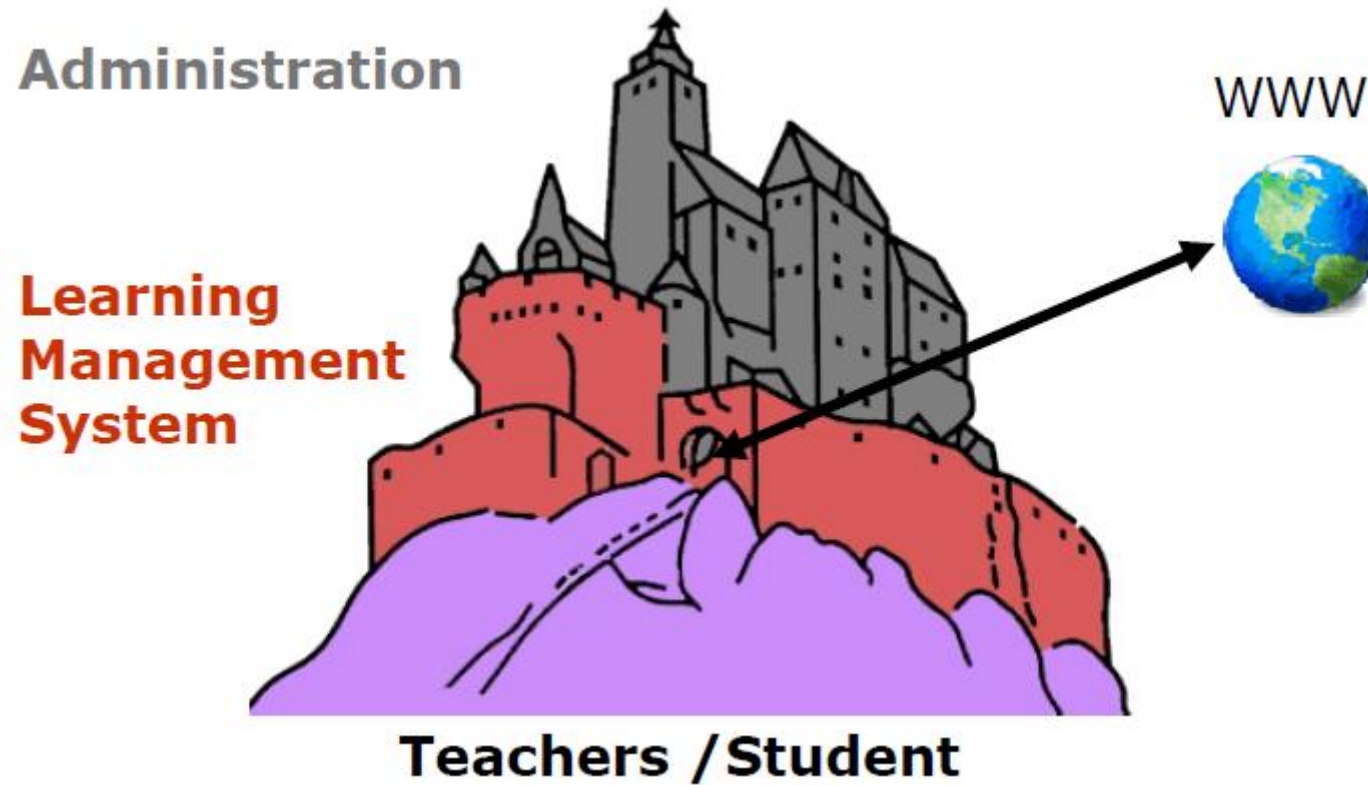
## E-Learning

*E-learning* is mostly associated with activities involving computers and interactive networks simultaneously.

The computer does not need to be the central element of the activity or provide learning content.

## Web Based Learning

Web-based learning is associated with learning materials delivered in a **Web browser**.



Bernard Luskin (2001) explains 'e' as

exciting,  
energetic,  
enthusiastic,  
emotional,  
extended and  
educational.

**It is a store house of education, information, communication, training, knowledge and performance management.**

# E-Learning Culture



## ➤ **Learner**

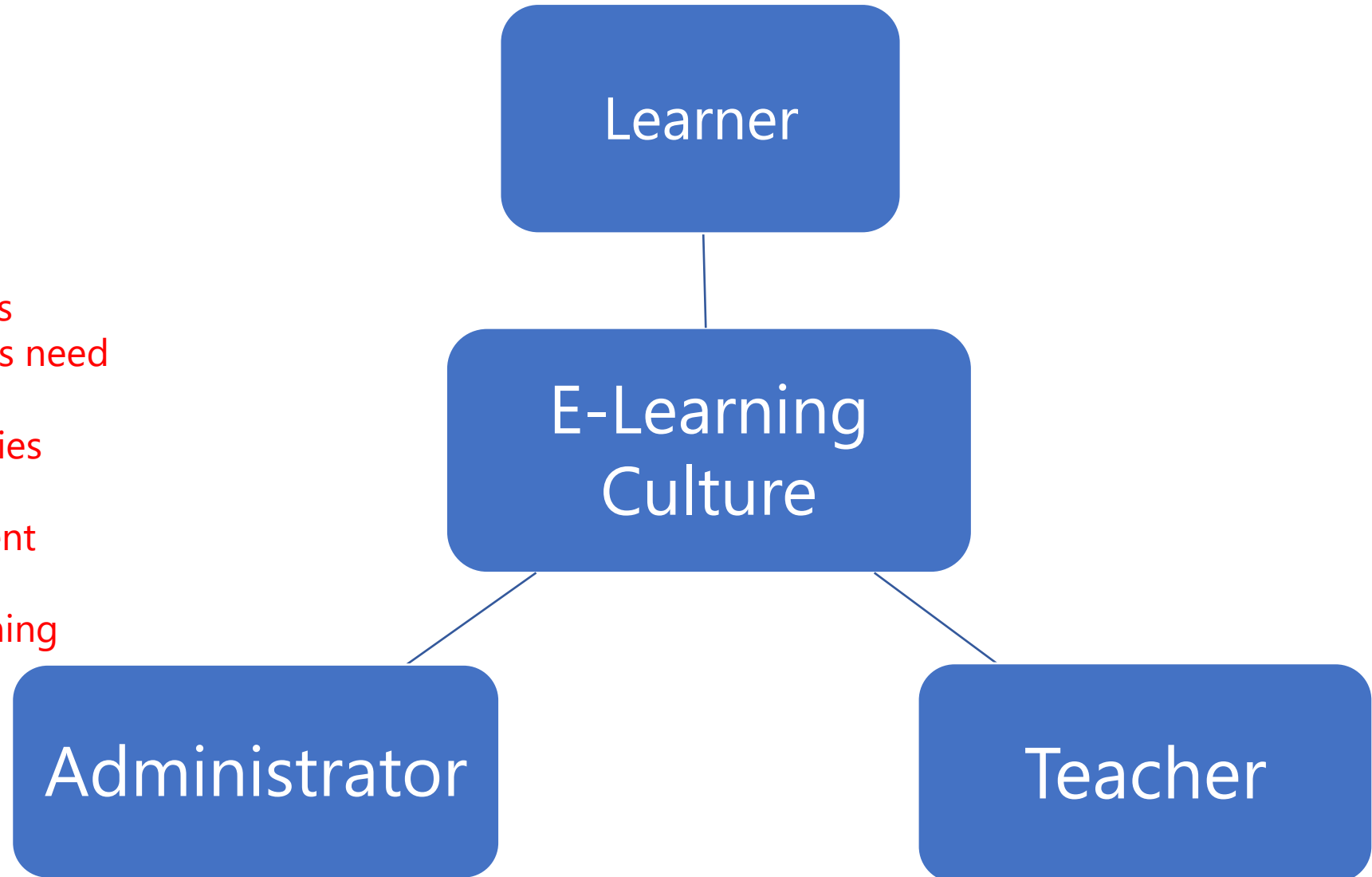
- Self-directed
- Self-motivated
- Self-regulating
- Lifelong learning

## ➤ **Teacher**

- Develop knowledge & skills
- Understand learning and its need
- Facilitate learning
- Create learning opportunities

## ➤ **Administrator**

- Create Learning environment
- Provide ICT infrastructure
- Resources for lifelong learning





# E-Learning Benefits



## Convenient

- **self-service (mix and match)**
- **on-demand (anytime, anywhere)**
- **private learning**
- **self-paced**
- **Flexibility: (modular package)**

## • Media-rich

- **Easier to understand & more engaging**

## • Repeatable

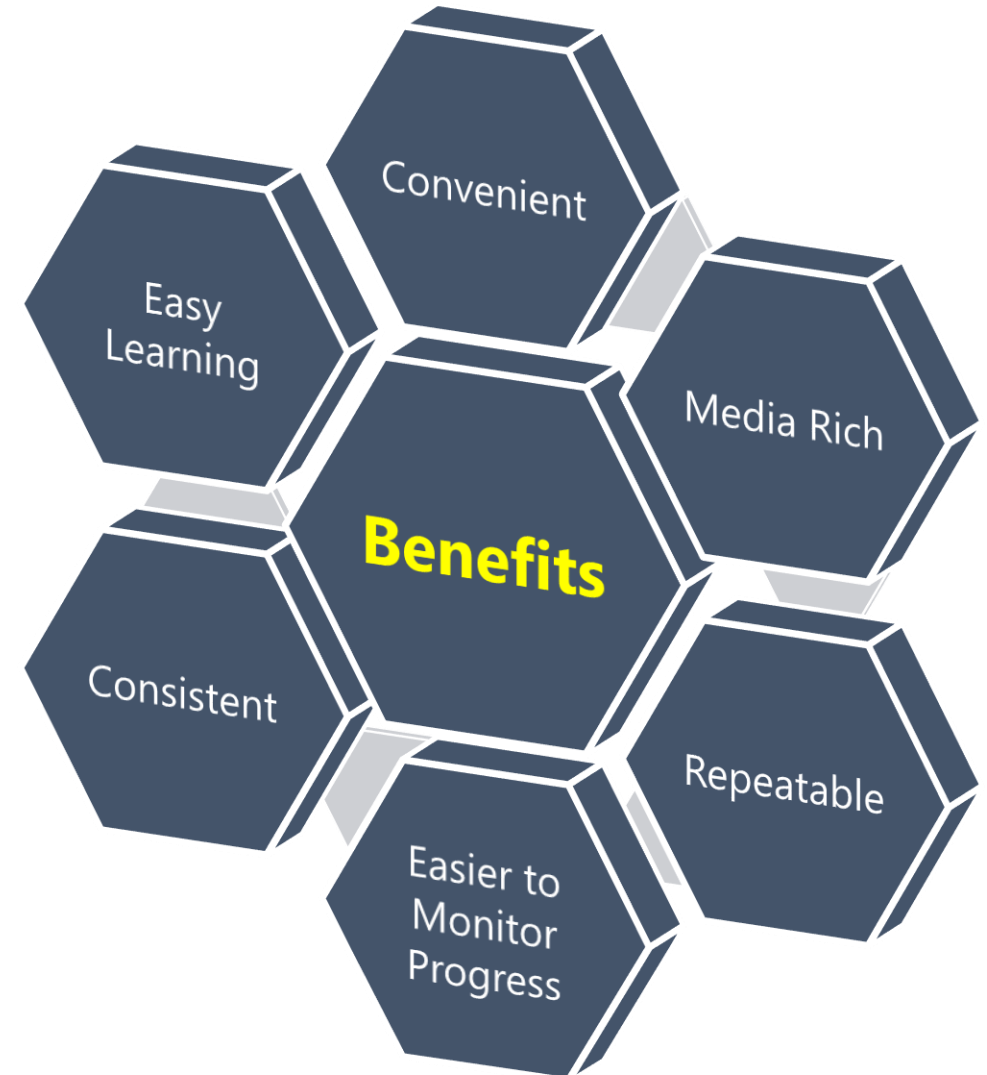
- **As many times as you like**

## • Easier to monitor progress

- **less administrative work**
- **can be more precise**

## • Consistent

- **Central control of content**
- **Same quality of content for all**
- **Same quality of education for all**



## Delivery Methods of Learning

<b>Synchronous</b>	<b>Asynchronous</b>	<b>Instructor-led Group</b>	<b>Self Study with Subject Group</b>	<b>Web Based Blog, Wikis...</b>	<b>Computer Based (CD- ROM)</b>  <b>Video, Audio Streaming</b>
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# Synchronous E-Learning



- **Learning and teaching takes place in real time (same time) while the trainer and learners are physically separated from each other (place shift).**
  
- **Examples include:**
  - **Listening to a live radio broadcast**
  - **Watching live a television broadcast**
  - **Audio/video conferencing**
  - **Internet telephony**
  - **Online lectures**
  - **Two-way live satellite broadcast**

Telephone  
Screen Sharing  
Desktop Conferencing  
Online Seminars

# Asynchronous E-Learning



- **The trainer prepares the courseware material before the course takes place. The learner is free to decide when he wants to study the courseware**

## **Examples include:**

- **Self paced courses taken via Internet or CD-ROM**
- **Videotaped classes**
- **Stored audio/video Web presentations or Seminars**
- **Recorded audio tapes**
- **Q & A mentoring**
- **Reading e-mail messages**

E-Mail  
Fax  
Newsgroups  
Computer Based Training  
Quick Reference Guide

# Instructor-led Group



- **It refers to the traditional classroom training where a teacher teaches a classroom full of students.**

**The problems of this learning are**

- **Bringing students under one roof**
- **Audience size and response time** - Same planning is required for smaller and larger group of students in planning, infrastructure and instructors.
- **Off the job time:** Working people face difficulty in finding a replacement for their jobs.

Teacher teaches in a  
class room full of  
students.

# Other methods of e-learning with tools – E-Mail



## **Every teacher & student should have an e-mail account**

- **Communicate with students**
- **Communicate with parents**
- **Students can submit assignment**
- **Can have attachments**
- **Create a paperless environment**
- **Simple but effective**
- **Efficient and cost effective**

Teacher and Learns  
both must have e-  
mail account

# Other methods of e-learning with tools – Audio Chat



- **Synchronous communication tool**
- **Communicate with students**
- **Communicate with parents**
- **More students participate**
- **Collaborative learning**

Communication is  
established with  
learner

# Other methods of e-learning with tools – Online Forum

- **Asynchronous discussion forum**
- **Teacher can create discussion groups**
- **Teacher could post a question and request students to comment**
- **Students can post their comments**
- **Can encourage community participation**
- **Collaborative learning can be fostered**
- **Feedback from diverse culture**

E-learning takes place through forum as Asynchronous learning



# Other methods of e-learning with tools – Web



- **Wide range of materials available**
- **Teacher will need to narrow down**
- **It is a resource center**
- **Sharing of resources**
- **Supported by images, audio, simulation and multimedia**

Web is full of  
resources

# Other methods of e-learning with tools – Video Conference

- **Can conduct a live lecture**
- **Communication with students**
- **Communication with parents**
- **Support by audio, chat and whiteboard**
- **Support sharing of applications**
- **Can be recorded and later be used for on demand lectures**

A large blue oval with a white border, containing the text 'Live Lectures' in white, sans-serif font.

Live Lectures

# Other methods of e-learning with tools – LMS

- **Management of content**
- **Tracking students**
- **Administrative features**
- **Integration with various tools such as chat, forum, e-mail, etc.**
- **Reporting**
- **Demo... of Multimedia Learning System (MMLS)**

E-learning takes  
place with the help of  
Learning  
Management  
Systems

# Traditional & Modern e-Learning



	<b>Traditional Classroom</b>	<b>Modern Learning</b>
<b>Class Room</b>	Physical (Limited Size) Synchronous Learning	Unlimited Asynchronous – Anytime
<b>Contents</b>	PowerPoint/transparency/etc. Textbooks/library Video Collaboration	Multimedia / simulation Digital library On demand Sync. & Async. Learning
<b>Personalization</b>	One learning path	Learning path and pace determined by learner

Open source refers to a program in which the source code (programming language) is available to the general public for use and /or modification from its original and redistribution.

# Open Source e-Learning Applications - eFront



**efront**

[Features](#)

[Pricing](#)

[Solutions](#)

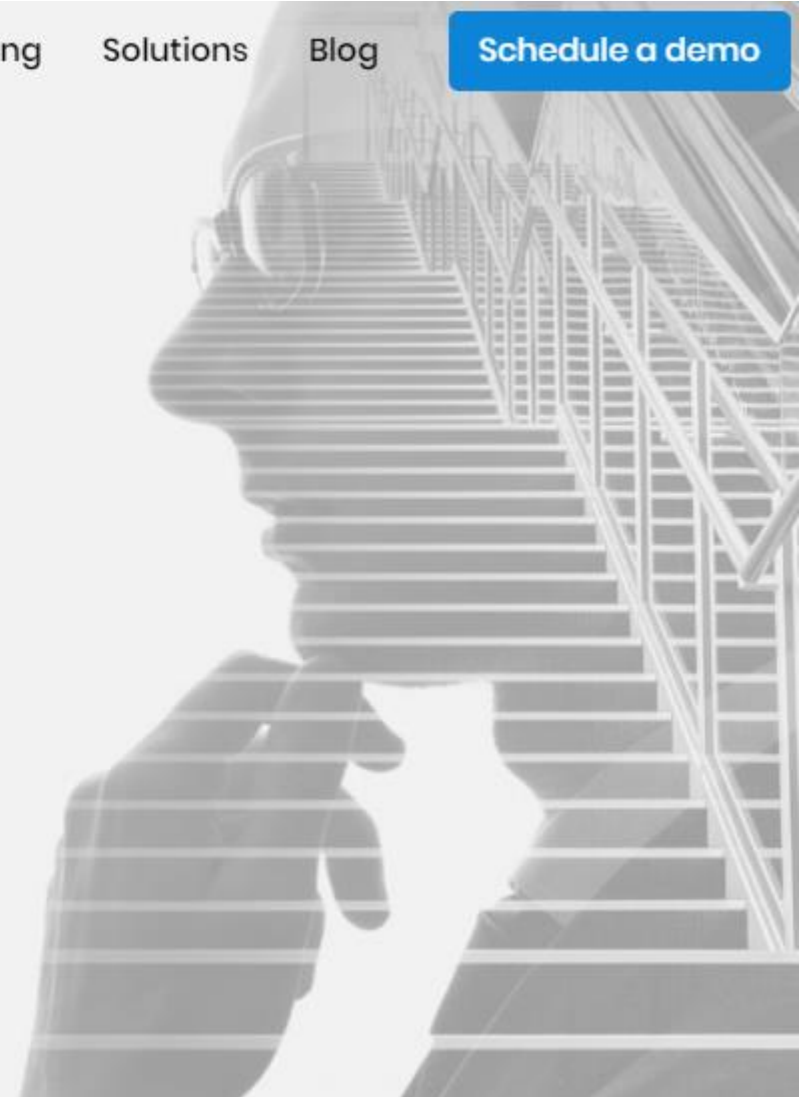
[Blog](#)

[Schedule a demo](#)

## One learning platform, limitless functionality

eFront is the enterprise learning management system engineered to support the most demanding and complex learning ecosystems

[Schedule a demo today](#)



# Open Source e-Learning Applications - Dokeos



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Discover the LMS

Free trial

# Open Source e-Learning Applications - Caroline



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[FORUM](#)    [CONTACT](#)

## Your Learning Management System

Really designed to maximize the impact of **learning**

[TRY IT](#)    [Discover in video](#)



# Open Source e-Learning Applications - ILIAS



 Deutsch [Login](#)

**ILIAS**

**The Open Source Learning Management System**

[Get Started](#)

[Using ILIAS](#)

[Development](#)

[Community](#)



**ILIAS: The Open Source  
Learning Management System**

[Learn more](#)

# Open Source e-Learning Applications - SAKAI



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# Open Source e-Learning Applications - OpenOLAT



English ▾

[OpenOLAT](#) [Features](#) [Open Source](#) [Hosting](#) [Blog](#)



## New!

# OpenOLAT 15.0 now available!

[Read more](#)



# Open Source e-Learning Applications - Moodle



DOCUMENTATION

DOWNLOADS

DEMO

TRACKER

DEVELOPMENT

TRANSLATION

MOODLENET



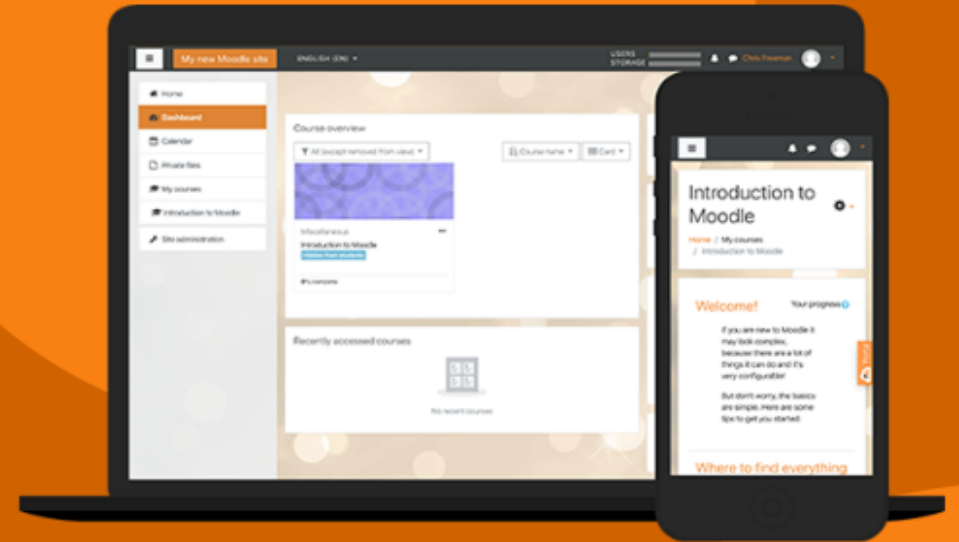
English - United States (en\_us)

You are not logged in. (Log in)

## Getting started is easy

Moodle is the world's most popular learning management system. Start creating your online learning site in minutes!

GET STARTED TODAY



Get started today



Robust open-source learning platform



Powering learning environments worldwide



Moodle stories from around the world

# Open Source e-Learning Applications - Moodle



## Statistics

Sites

155,000

Courses

25,000,000

Users

202,000,000

Enrolments

1,114,000,000

Forum posts

437,000,000

Resources

209,000,000

Quiz questions

2,337,000,000

Countries

245

Registered Moodle sites

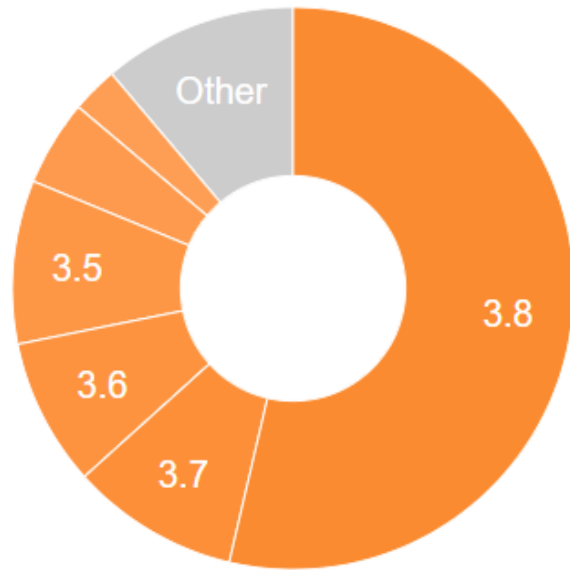
We perform [regular bulk checking of sites](#) to make sure they still exist, so occasionally you may see reductions in the count

# Open Source e-Learning Applications - Moodle



## Top 10 from 245 countries by registrations

● 3.8 ● 3.7 ● 3.6 ● 3.5 ● 3.4 ● 3.3 ● Other



Country	Registered sites
United States	11,810
Spain	11,782
Mexico	9,614
India	8,466
Germany	7,373
Brazil	6,517
France	5,662
Russian Federation	5,430
Colombia	4,816
Indonesia	4,445

## Welcome to Virtual Meetings

### Available courses

#### [Design and Development of Website with CMS](#)

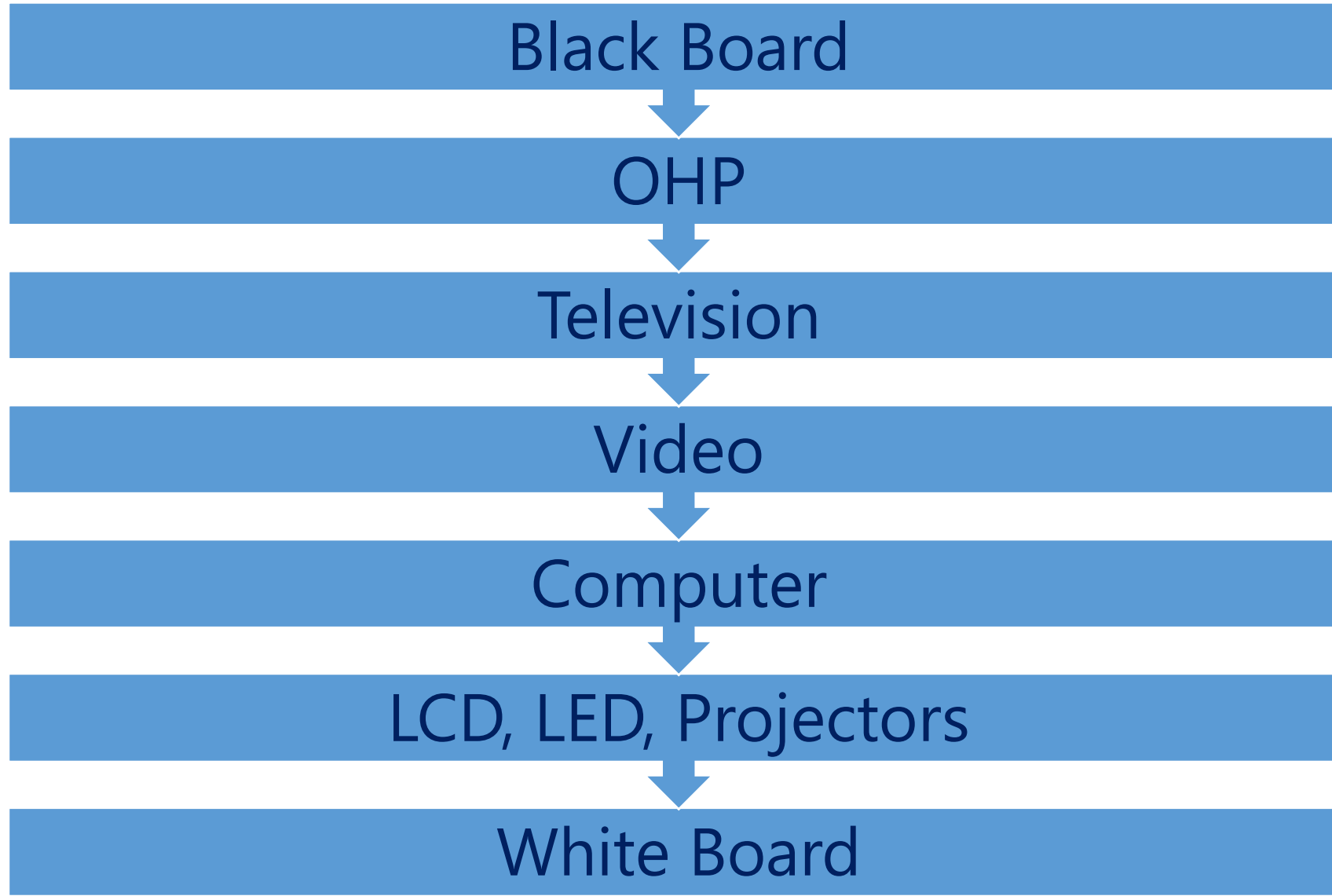


Welcome you all to the 3rd Virtual Meeting on "Design and Development of Website with Open Source Content Management System".

Agenda:

1. Registration of Domain online
2. Installation of CMS on registered domain
3. Configuration
4. Design & development of website
5. Open Session with Participants

# Teaching Aids in Learning Process – Transformation





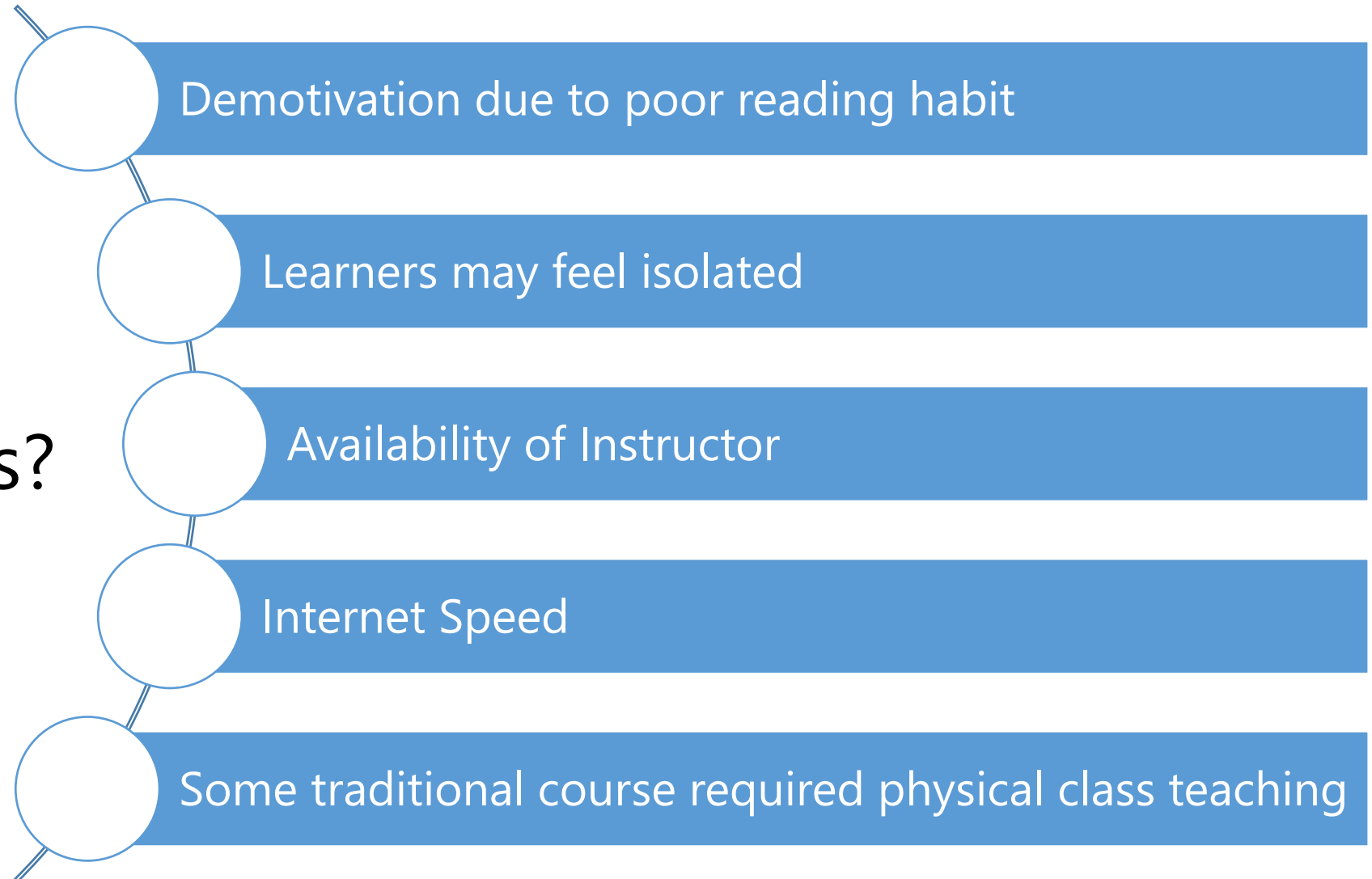
# E-Learning Advantages



## Advantages

- Reduce Travel Cost & Time
- Selection Learning Materials as per requirement
- Learners are free to access the content as per their convenience
- Self paced learning with working in office too
- Flexibility to join discussion forum
- Update knowledge with less efforts being in own place
- Assist in personalization of personal and professional work

## What about Disadvantages?



Web 2.0 is interface allows the Internet users to interact with the contents of the pages, and with each other.

## **Web 1.0 is:**

- ✓ read
- ✓ passive user
- ✓ representation
- ✓ lack of differentiation

## **Web 2.0 is:**

- ✓ write
- ✓ active user
- ✓ participation
- ✓ personnalisation

# Web 2.0 in e-Learning



- ✓ To Give his opinion
- ✓ To Share
- ✓ To Express himself
- ✓ To Influence
- ✓ To Browse differently
- ✓ To Personalise

Web 2.0 is interface allows the Internet users to interact with the contents of the pages, and with each other.

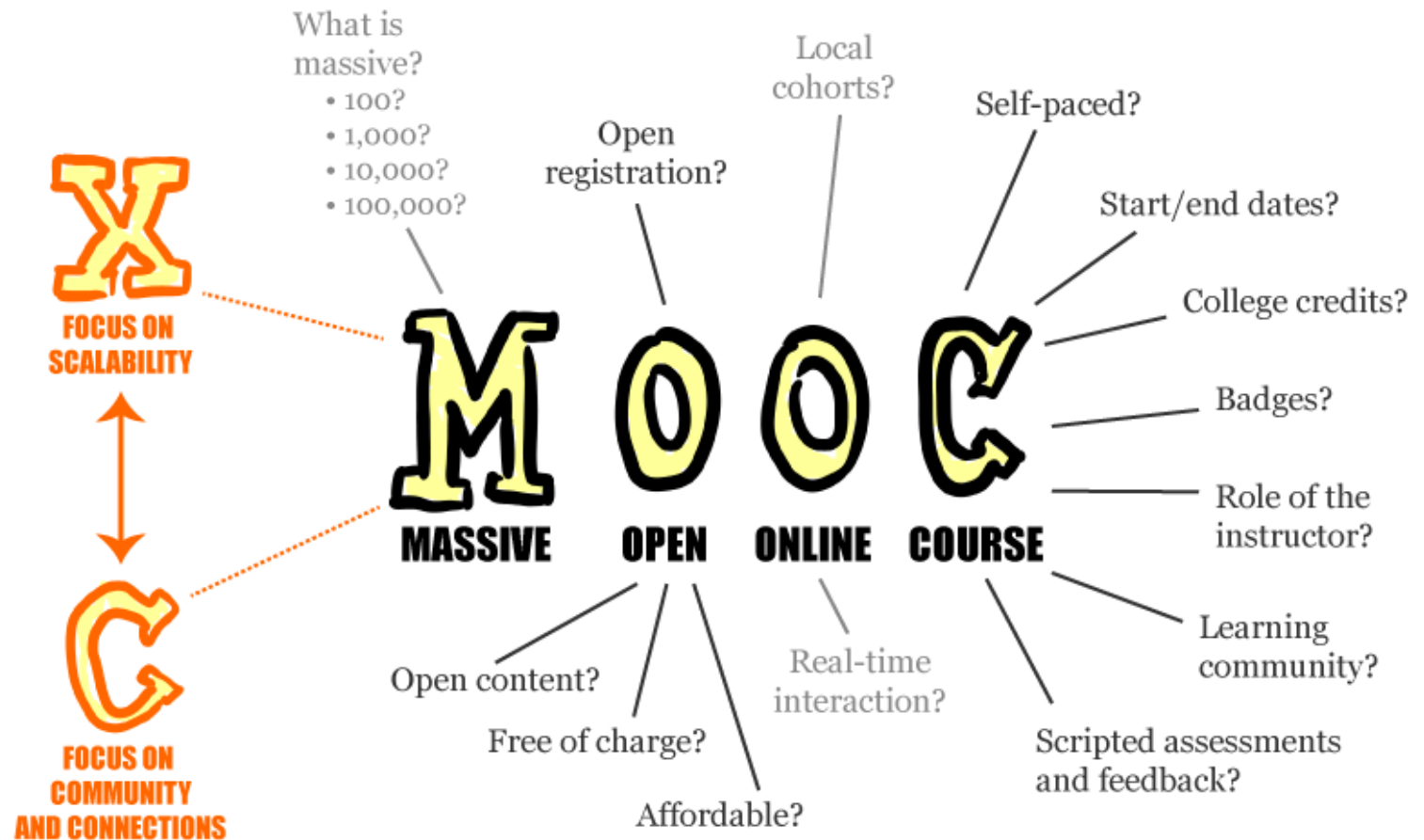
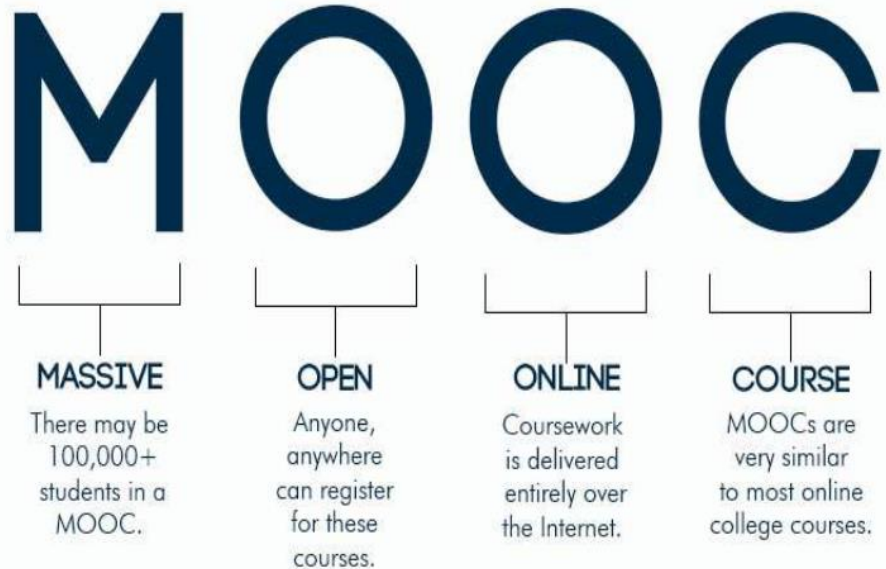
## **Web 1.0 is:**

- ✓ read
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- ✓ lack of differentiation

## **Web 2.0 is:**

- ✓ write
- ✓ active user
- ✓ participation
- ✓ personnalisation

# MOOC – Massive Open Online Courses



# MOOC – Massive Open Online Courses



**MOOC.org**

[Visit edX.org](#)

Language: EN | [ES](#)

## Welcome to Mooc.org

Mooc.org is an extension of edX.org, a leader in online courses. Whether you're interested in leveraging online courses to educate your workforce or creating a MOOC, edX

[Browse Online edX Courses](#)

The word *MOOC* was coined in **2008** by **Dave Cormier**, from the University of Prince Edward Island for a course offered by the University of Manitoba, "**Connectivism and Connective Knowledge.**"

Massive Open Online Courses (MOOCs) are [free online courses](#) available for anyone to enroll. MOOCs provide an affordable and flexible way to learn new skills, advance your career and deliver quality educational experiences at scale.

Millions of people around the world use MOOCs to learn for a variety of reasons, including: career development, changing careers, college preparations, supplemental learning, lifelong learning, corporate eLearning & training, and more.



# MOOC – Massive Open Online Courses



THE LATEST Free Online Learning Due to Coronavirus (Updated Continuously) View

CLASS CENTRAL Courses ▾ Rankings ▾ News ▾ Search online courses Sign in or Register

Home / Universities

## Universities (939)

Massachusetts Institute of Technology 235 courses	View >
Indian Institute of Technology, Kharagpur 229 courses	View >
Stanford University 228 courses	View >
University of Michigan 227 courses	View >
University of Pennsylvania	View >

## Massive List of MOOC Providers Around The World

Dhawal Shah & Laurie Pickard Jul 30th, 2019



A MOOC is an online course with the option of **free and open registration**, a **publicly-shared curriculum**, and open-ended outcomes.

MOOCs integrate **social networking**, **accessible online resources**, and are facilitated by leading practitioners in the field of study.

<https://www.classcentral.com/report/mooc-providers-list/>



# List of Providers MOOC Courses



Name	Name
<a href="#">Alison</a>	openHPI
<a href="#">Canvas Network</a>	OpenLearning
<a href="#">Coursera</a>	<a href="#">OpenSAP</a>
<a href="#">edX</a>	Open Universities Australia
FutureLearn	<a href="#">Peer to Peer University</a>
<a href="#">The Great Courses</a>	<a href="#">POLHN</a>
<a href="#">iversity</a>	<a href="#">Shaw Academy</a>
<a href="#">Kadenze</a>	<a href="#">Stanford Online</a>
<a href="#">Khan Academy</a>	<a href="#">SWAYAM</a>
<a href="#">Linkedin Learning</a>	<a href="#">Udacity</a>
OpenClassrooms	<a href="#">Udemy</a>
	<a href="#">WizIQ</a>

The first MOOCs emerged from the open educational resources (OER) movement, and from work by researchers who pointed out that class size and learning outcomes had no established connection. The term *MOOC* was coined in 2008 by Dave Cormier of the University of Prince Edward Island in response to a course called *Connectivism and Connective Knowledge* (also known as *CCK08*).

## MOOCs Benefit



# SWAYAM Study Webs of Active-Learning for Young Aspiring Minds



[About Swayam](#) | [All Courses](#) | [National Coordinators](#) | [Local Chapters](#)

Anil D. Sahasrabudhe

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meet your needs

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ARPIT courses

SWAYAM Courses in  
Regional languages

Completed Courses

ICT Initiatives of MHRD

Let COVID-19 not Stop  
your Learning.  
Continue with SWAYAM



The courses hosted on SWAYAM are in 4 quadrants –

- (1) Quadrant-I is e-Tutorial: video lecture
- (2) Quadrant-II is e-Content: specially prepared reading material that can be downloaded/printed
- (3) Quadrant-III is Web Resources: self-assessment tests through tests and quizzes
- (4) Quadrant-IV is Self-Assessment: an online discussion forum for clearing the doubts.

# SWAYAM National Coordinators



## SWAYAM National Coordinators



# SWAYAM – Role of National Coordinators



[AICTE](#) for self-paced and international courses

[NPTEL](#) for engineering

[UGC](#) for non technical post-graduation education

[CEC](#) for under-graduate education

[NCERT](#) & [NIOS](#) for school education

[IGNOU](#) for out of the school students

[IIMB](#) for management studies

[NITTTR](#) for Teacher Training programme

# SWAYAM – Role of National Coordinators



School  
education

- 1. National Institute of Open Schooling
- 2. National Council Of Educational Research And Training

Out-of-  
school  
education

- Indira Gandhi National Open University

Under-  
graduate  
education

- 1. Engineering education (National Programme on Technology Enhanced Learning)
- 2. Management education (Indian Institute of Management, Bangalore)
- 3. Consortium for Educational Communication

Post-  
graduate  
education

- 1. Engineering education (National Programme on Technology Enhanced Learning)
- 2. Management education (Indian Institute of Management, Bangalore)
- 3. University Grants Commission





Let us see some  
Tools for Libraries in Next Slides

# Impact of Technology on Libraries

D. P. Tripathi

[www.dpatripathi.co.in](http://www.dpatripathi.co.in)

[dptnitrkl@gmail.com](mailto:dptnitrkl@gmail.com)

# Agenda

- Library - Service Centre
- Areas of Services - Academic Libraries
- Important Tools - Open Source, Free and Commercial (Paid) Software
- Why
- Impact & Challenges in Implementation
- Open Source @ BPCL, NIT Rourkela
  - Library Online Public Access Catalog
  - Institutional Repositories
  - Library Website
  - Subject Guide
  - Moodle @ NIT Rourkela

# Library - A Service Centre

Library is a place (physical or digital) where documents / items are stored in order to provide services to its users.

**“Library - a building or room containing collections of books, periodicals, and sometimes films and recorded music for use or borrowing by the public or the members of an institution”**

**“a building, room, or organization that has a collection, especially of books, for people to read or borrow, usually without payment”**



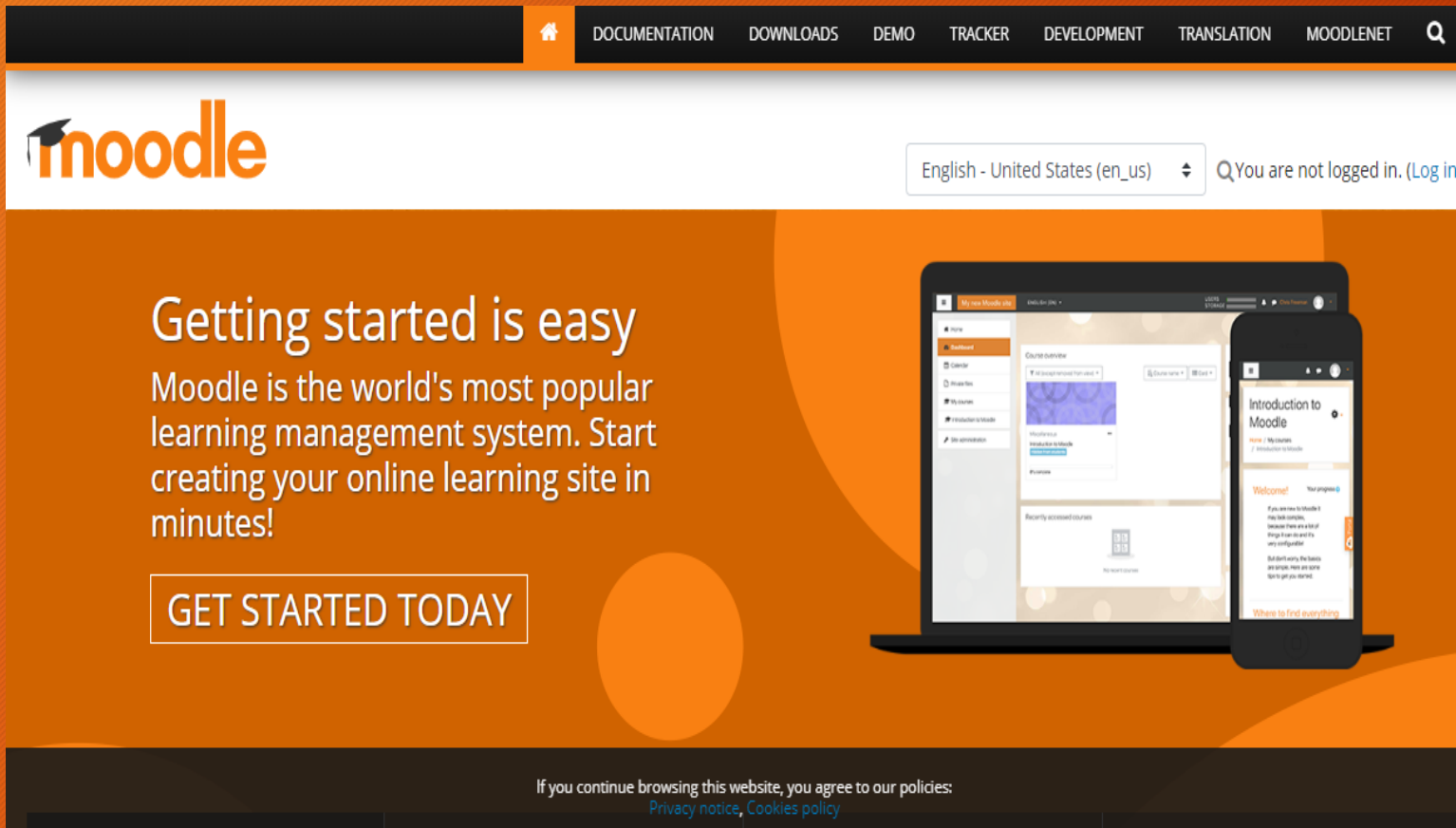
# Areas of Services (From User's Point of View)

- Circulation (Issue/Return/Renewal/Auto-Renewal) → Library Automation
- User Awareness & Orientation
  - Workshop, Training Program (Offline & Online), Seminar, Conferences
- Public Access Catalog
  - Library Automation & Web Scale Discovery Services
- Current Awareness & Reference
  - New Arrivals (Manual + Online), E-Newsletter, Alert Services, Subject Guide, Other Services
- Research Support
  - Training Programs on Reference Management Tools, Academic Dishonesty & Plagiarism
- Organization of Resources (Print + Online)
  - Print → Classification System + Cataloguing (OPAC)
  - E-Resources → Access and Management with ERM
- Research Data management → Scholarly Output, Digitization & its access in future
- Physical Ambience → Infrastructure (Building, Furniture, Computers, Networking, Surveillance)

# Important Tools → Open Source + Free + Paid

- The concept of open source involves making the source code openly available to all in public
- Freedom for developer / programmer to modify the code and redistribute
- Criteria of Open Source set by Open Source Initiatives (OSI) includes Unrestricted distribution, Modifications, Integrity of Source Code, No Personal Discrimination, Restriction on Application,

# Open Source Tools - Moodle for Online Learning



The screenshot shows the Moodle website homepage. At the top, there is a navigation bar with links for DOCUMENTATION, DOWNLOADS, DEMO, TRACKER, DEVELOPMENT, TRANSLATION, and MOODLENET, along with a search icon. Below the navigation bar is the Moodle logo and a language selector set to "English - United States (en\_us)". The main content area features a large orange background with the text "Getting started is easy" and "Moodle is the world's most popular learning management system. Start creating your online learning site in minutes!". A prominent "GET STARTED TODAY" button is displayed in a white box. To the right, there is an image of a laptop and a smartphone, both displaying the Moodle interface. At the bottom, a small footer contains the text "If you continue browsing this website, you agree to our policies:" followed by links for "Privacy notice" and "Cookies policy".

Getting started is easy  
Moodle is the world's most popular learning management system. Start creating your online learning site in minutes!

[GET STARTED TODAY](#)

If you continue browsing this website, you agree to our policies:  
[Privacy notice](#), [Cookies policy](#)

- A super friendly dashboard.
- Easy communication.
- Share your work.
- Badges.
- Track your progress.
- A (very) cool calendar.
- Type straight in



# Open Source Tools - ILMS - Koha

[Home](#)[News](#)[About](#)[Calendar](#)[Demo](#)[Documentation](#)[Download Koha](#)[Get Involved](#)[KohaCon](#)[Support](#)

## Koha Library Software

### The world's first free and open source library system

Koha is a fully featured, scalable library management system. Development is sponsored by libraries of varying types and sizes, volunteers, and support companies worldwide.

**Introducing Koha 19.11**

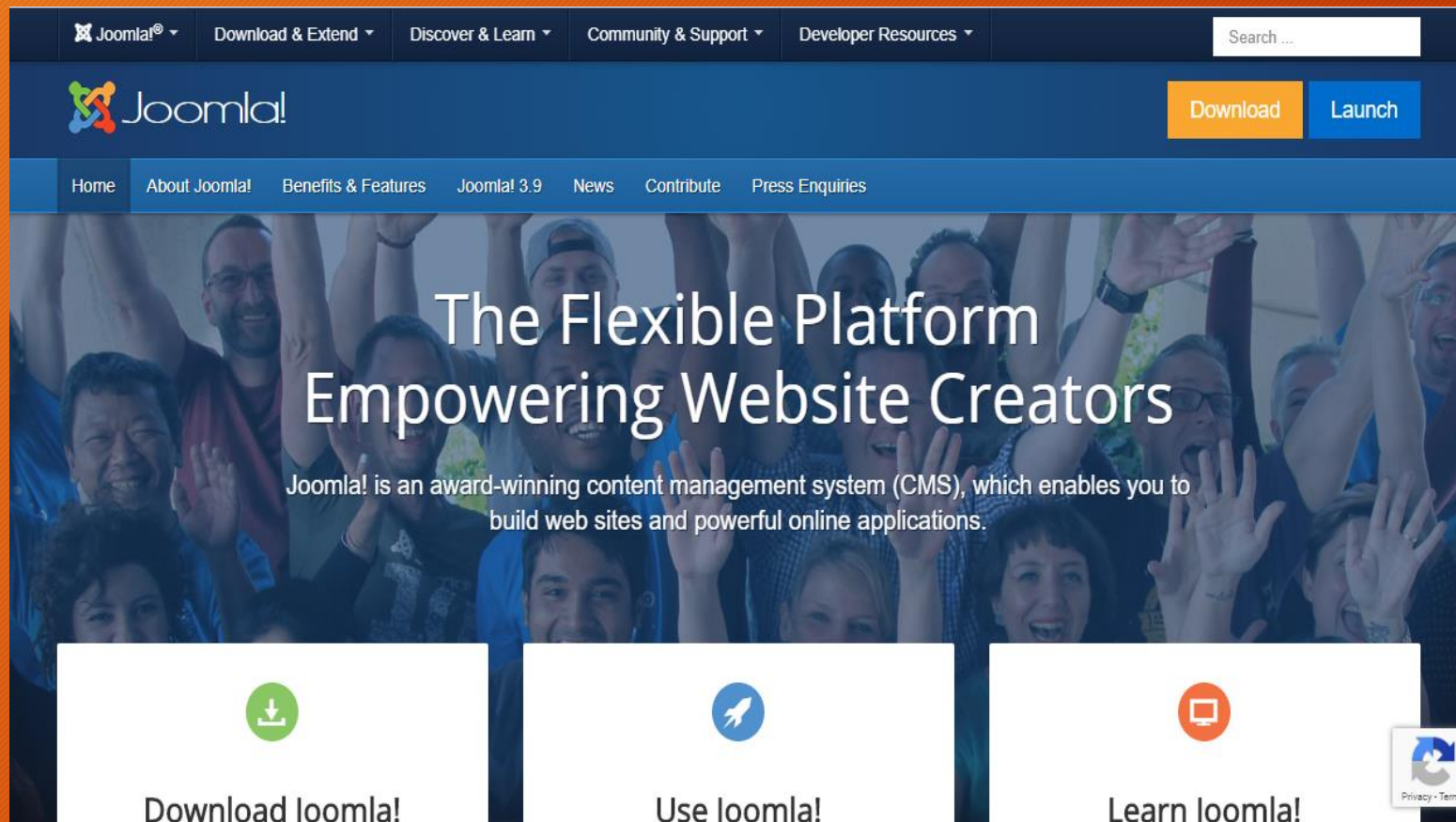
[Try it now](#)



- Supports library housekeeping operations
- Various Web 2.0 facilities like tagging, comment, social sharing and RSS feeds
- Union catalog facility
- Customizable search
- Online Circulation
- Bar code & Member Card printing
- Supports RFID



# Open Source Tools - CMS - Joomla



The screenshot shows the Joomla! website homepage. At the top, there is a navigation bar with links for Joomla!®, Download & Extend, Discover & Learn, Community & Support, and Developer Resources. A search bar is located on the right. Below the navigation bar is the Joomla! logo and two buttons: Download and Launch. A secondary navigation bar contains links for Home, About Joomla!, Benefits & Features, Joomla! 3.9, News, Contribute, and Press Enquiries. The main content area features a large image of a diverse group of people with their hands raised, overlaid with the text "The Flexible Platform Empowering Website Creators". Below this text is a paragraph: "Joomla! is an award-winning content management system (CMS), which enables you to build web sites and powerful online applications." At the bottom, there are three white boxes with icons and text: "Download Joomla!" (green download icon), "Use Joomla!" (blue rocket icon), and "Learn Joomla!" (orange monitor icon). A small "Privacy - Terms" link is visible in the bottom right corner.

- Content Management
- User Management
- Media Manager
- Contact Management
- Banner Management
- Search
- Web Links
- RSS
- Menu Manager
- Template Management
- Plugins & community support

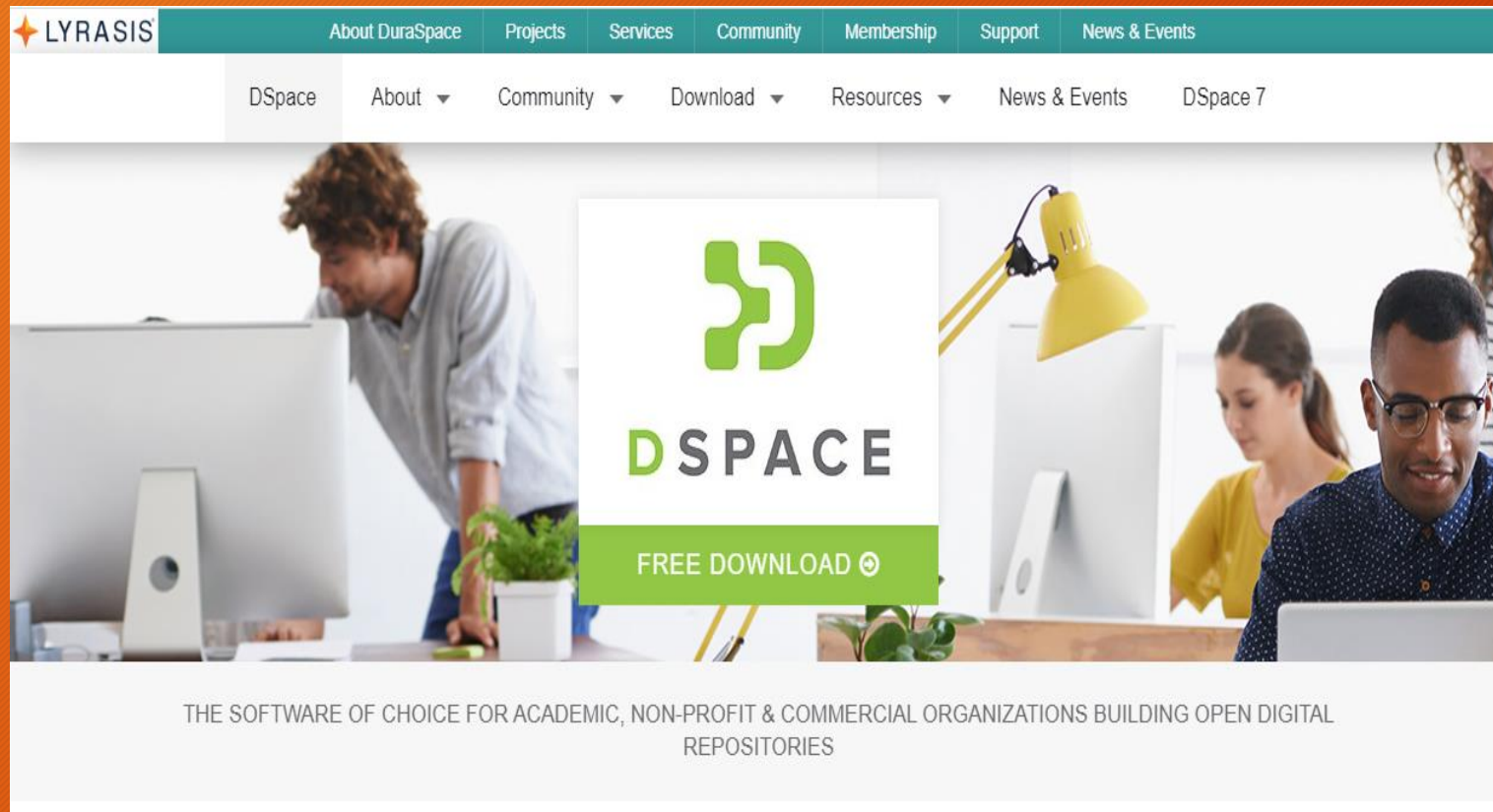
# Open Source Tools - CMS - WordPress

A screenshot of the WordPress.org homepage. The header features the WordPress logo and 'WORDPRESS.ORG' on the left, a search bar with 'Search WordPress.org' in the center, and navigation links for 'Showcase', 'Themes', 'Plugins', 'Mobile', 'Support', 'Get Involved', 'About', 'Blog', and 'Hosting' on the right. A prominent blue button labeled 'Get WordPress' is also visible. The main content area has a blue background with the text 'Meet WordPress' in large white font, followed by the subtext 'WordPress is open source software you can use to create a beautiful website, blog, or app.' Below this, on a white background, is the text 'Beautiful designs, powerful features, and the freedom to build anything you want. WordPress is both free and priceless at the same time.'

- Content Management
- User Management
- Media Manager
- Contact Management
- Banner Management
- Search
- Web Links
- RSS
- Menu Manager
- Template Management
- Plugins & community support

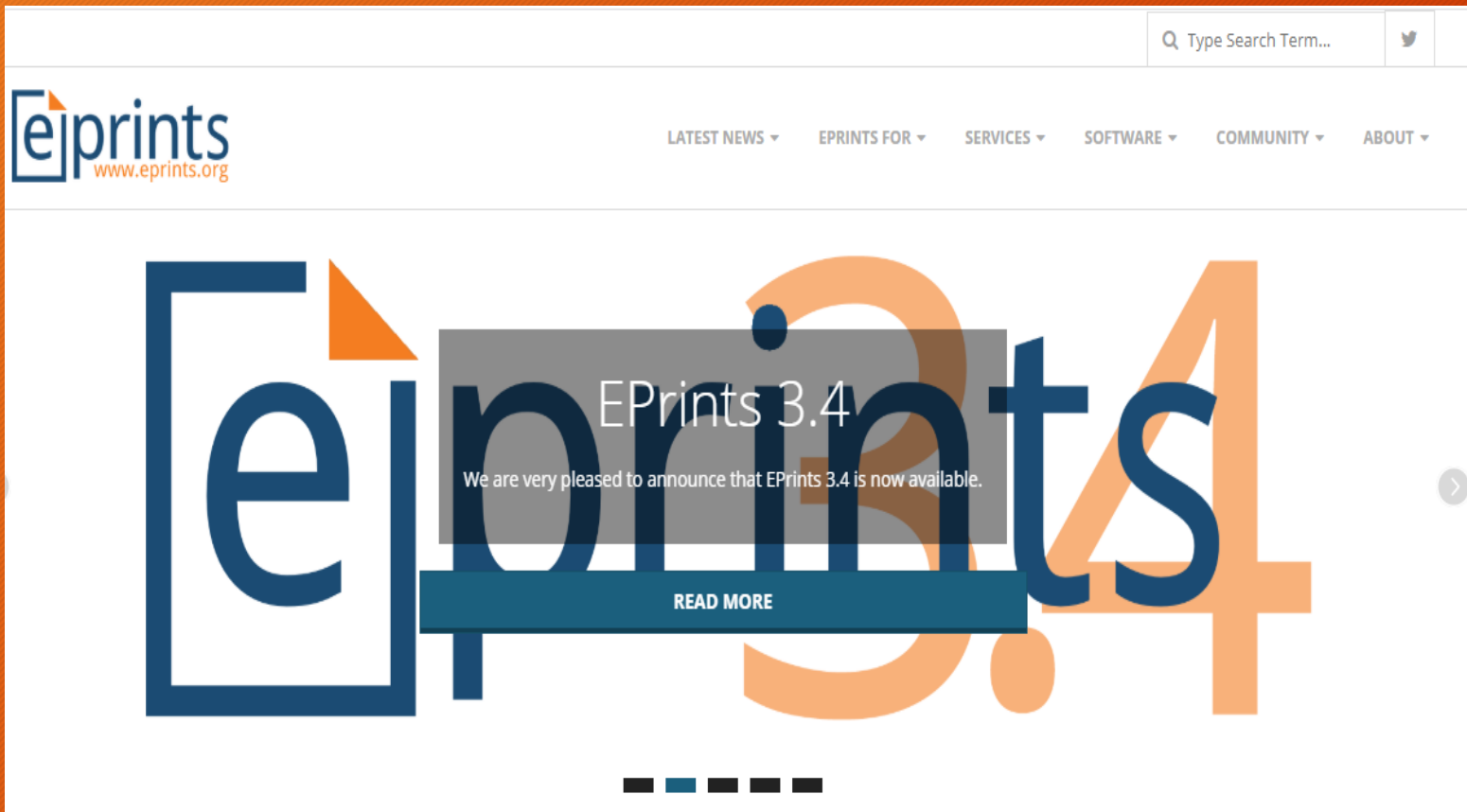


# Open Source Tools - DLMS - DSpace

The image shows a banner for the DSpace website. At the top left is the LYRISIS logo. Below it is a navigation menu with links for About DuraSpace, Projects, Services, Community, Membership, Support, and News & Events. A secondary navigation bar includes DSpace, About, Community, Download, Resources, News & Events, and DSpace 7. The main visual is a photograph of a modern office with people working at computers. Overlaid on this is a white box containing the green DSpace logo, the text 'DSPACE', and a green button that says 'FREE DOWNLOAD'. Below the photograph, a white text box contains the tagline: 'THE SOFTWARE OF CHOICE FOR ACADEMIC, NON-PROFIT & COMMERCIAL ORGANIZATIONS BUILDING OPEN DIGITAL REPOSITORIES'.

- Free open source software
- Completely customizable to fit user needs
- Manage and preserve all format of digital content (PDF, Word, JPEG, MPEG, TIFF files)
- Apache SOLR based search for metadata and full text contents
- UTF-8 Support
- Interface available in 22 languages
- Granular group based access control, allowing setting permissions down to the level of individual files
- Optimized for Google Scholar indexing

# Open Source Tools - DLMS - EPrints



- Free open source software
- Completely customizable to fit user needs
- Manage and preserve all format of digital content (PDF, Word, JPEG, MPEG, TIFF files)
- UTF-8 Support
- 1000 of Plugins available



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HELP ▾

Search this site

If you have colleagues or friends who need to start teaching online right away, please refer them to our short NowComment Online Transition X Guide: <https://nowcomment.com/documents/174379>. Thanks.

Coronavirus Facts

- "Corona" is Latin for crown.
- Under a microscope these viruses look like a crown with spikes ending in little blobs.

A Comic Exploring The New Coronavirus

Slide 5 Google Slides

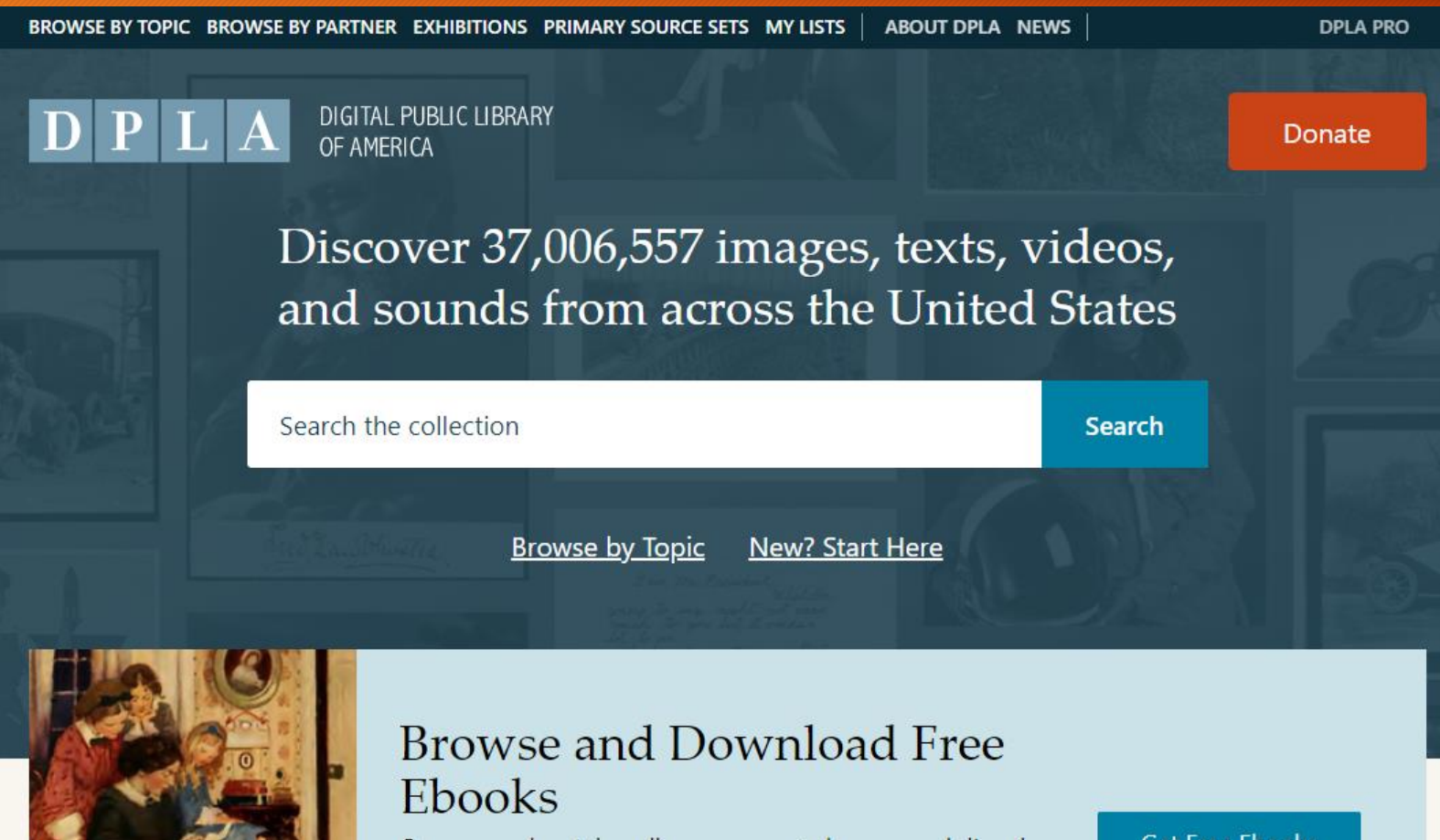
NowComment makes it easy to have rich, engaging discussions of online documents no matter how large (or small) your class or collaboration group.

- NowComment is fast, powerful, and feature-rich: you can sort comments, skim summaries, create assignments, hide comments, reply privately, and [much more](#)
- It's *free*, a project managed by Paul Allison, a consultant for the NYC Writing Project and the NWP. Take 60 seconds to get an account now!



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# Research & Citation - NOWCOMMENT



The screenshot shows the DPLA website homepage. At the top, there is a navigation bar with links: BROWSE BY TOPIC, BROWSE BY PARTNER, EXHIBITIONS, PRIMARY SOURCE SETS, MY LISTS, ABOUT DPLA, NEWS, and DPLA PRO. Below the navigation bar is the DPLA logo (D, P, L, A) and the text "DIGITAL PUBLIC LIBRARY OF AMERICA". A "Donate" button is visible in the top right. The main heading reads "Discover 37,006,557 images, texts, videos, and sounds from across the United States". Below this is a search bar with the placeholder text "Search the collection" and a "Search" button. Underneath the search bar are links for "Browse by Topic" and "New? Start Here". At the bottom, there is a section titled "Browse and Download Free Ebooks" with a small image of a historical scene and a "Get Free Ebooks" button.

- NowComment makes it easy to have rich, engaging discussions of online documents no matter how large (or small) your class or collaboration group.
- NowComment is fast, powerful, and feature-rich: you can sort comments, skim summaries, create assignments, hide comments, reply privately, and much more
- It's *free*, a project managed by Paul Allison, a consultant for the NYC Writing Project and the NWP. Take 60 seconds to get an account now!



# Research & Citation - zotero**ib** (zbib.org)

zotero**ib**

Enter a URL, ISBN, DOI, PMID, arXiv ID, or title

Cite

Manual Entry

Bibliography

American Psychological Association 7th edition



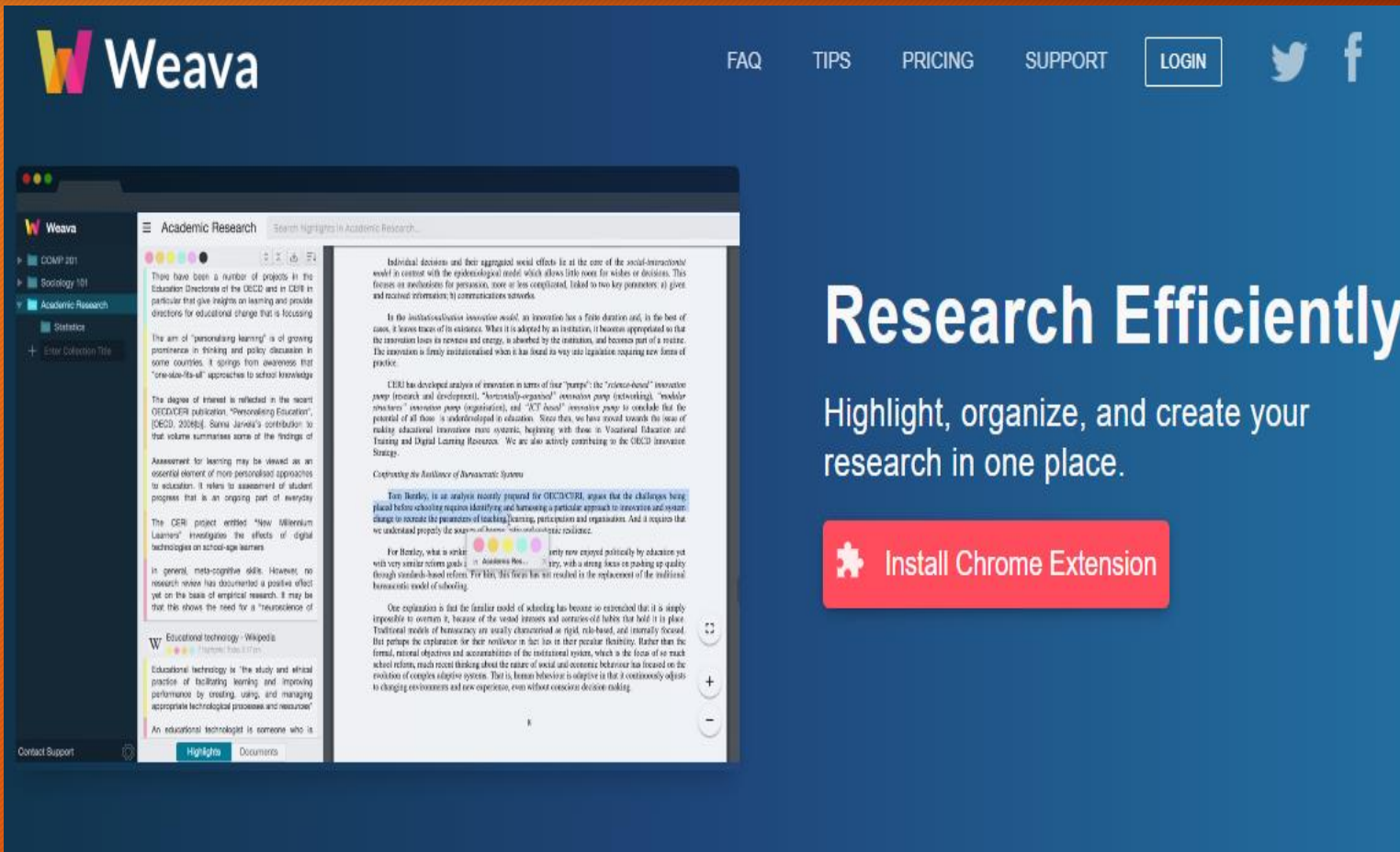
Cervantes Saavedra, M. de, & Smollett, T. (2018). *Don quixote*. Dover Publications.



ZoteroBib helps you build a bibliography instantly from any computer or device, without creating an account or installing any software.

It's brought to you by the team behind Zotero, the powerful open-source research tool recommended by thousands of universities worldwide,

# Research & Citation - Weava Highlighter (<https://www.weavatools.com/>)




Highlight & organize your research with Weava online Web & PDF highlighter.

Simplify your research process. Focus on Productivity. Don't waste time on keeping track of sources, copying & pasting, or making citations

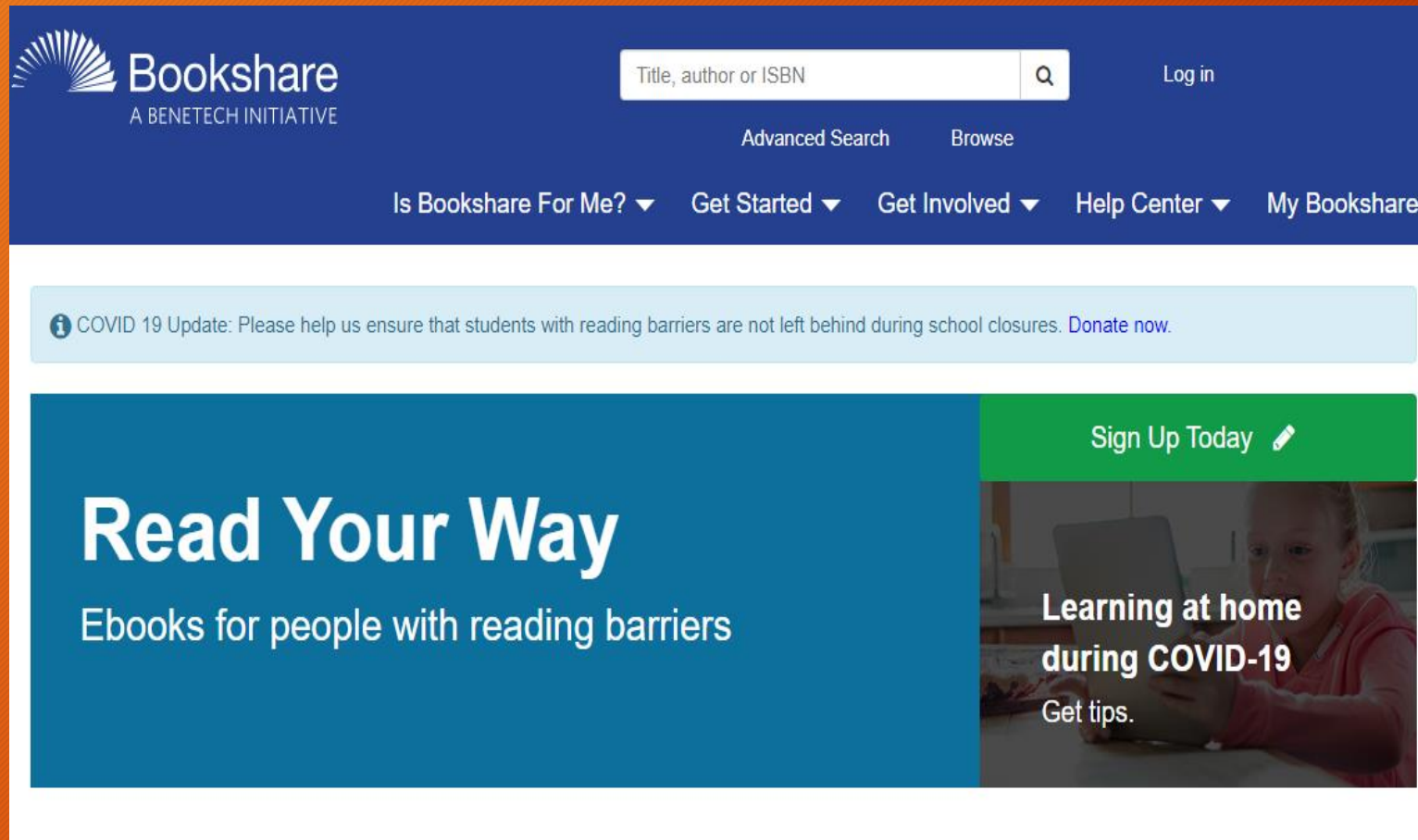
## Research Efficiently

Highlight, organize, and create your research in one place.

 Install Chrome Extension



# Reading & Writing - Bookshare (<https://www.bookshare.org/cms/>)



The screenshot shows the Bookshare website homepage. At the top left is the Bookshare logo, a stylized sunburst, with the text "Bookshare" and "A BENETECH INITIATIVE" below it. To the right of the logo is a search bar with the placeholder text "Title, author or ISBN" and a magnifying glass icon. Further right is a "Log in" link. Below the search bar are two links: "Advanced Search" and "Browse". A navigation bar contains several dropdown menus: "Is Bookshare For Me?", "Get Started", "Get Involved", "Help Center", and "My Bookshare". Below the navigation bar is a light blue banner with an information icon and the text: "COVID 19 Update: Please help us ensure that students with reading barriers are not left behind during school closures. [Donate now.](#)" Below this banner is a large blue section with the heading "Read Your Way" and the subtext "Ebooks for people with reading barriers". To the right of this section is a green button that says "Sign Up Today" with a pencil icon. Below the button is a photograph of a young girl sitting at a desk with a laptop, looking at the screen. Overlaid on the bottom of the photo is the text "Learning at home during COVID-19" and "Get tips."

Bookshare makes reading easier.

People with dyslexia, blindness, cerebral palsy, and other reading barriers can customize their experience to suit their learning style and find virtually any book they need for school, work, or the joy of reading.

# Reading & Writing - 826digital (<https://826digital.com>)

WHILE WE'RE ALL AT HOME, IT'S #AGOODTIMETOWRITE  
AND A CRITICAL TIME TO SUPPORT THE 826 NATIONAL NETWORK.

RESOURCES

DONATE



WELCOME, DP.



Welcome to 826 Digital. Please choose a resource.



SPARKS



LESSONS



PROJECTS



WRITING

# Reading & Writing - Book Creator (<https://app.bookcreator.com/sign-in>)

The simple way to create and share ebooks in your classroom

Student sign in Teacher sign in

Sign in with Google

Sign in with Office 365

Sign in with QR code

[Sign in with Clever](#)

By signing up you agree to the [Terms of Service](#)  
Book Creator and the Book Creator logo are trademarks of Tools for Schools Limited. © Tools for Schools  
[Privacy Policy](#) [Terms of Service](#)

Magically easy way to create and publish digital books and multimedia



# User Awareness with QR Code

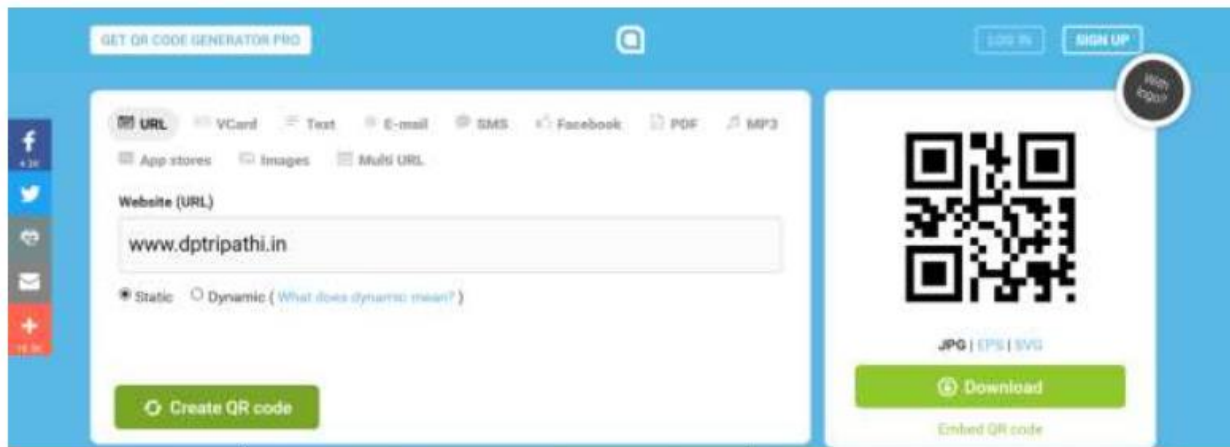
## Online QR code generator:

There are many online QR Code generator but I find this one very useful for my purpose.

<http://www.qr-code-generator.com/>

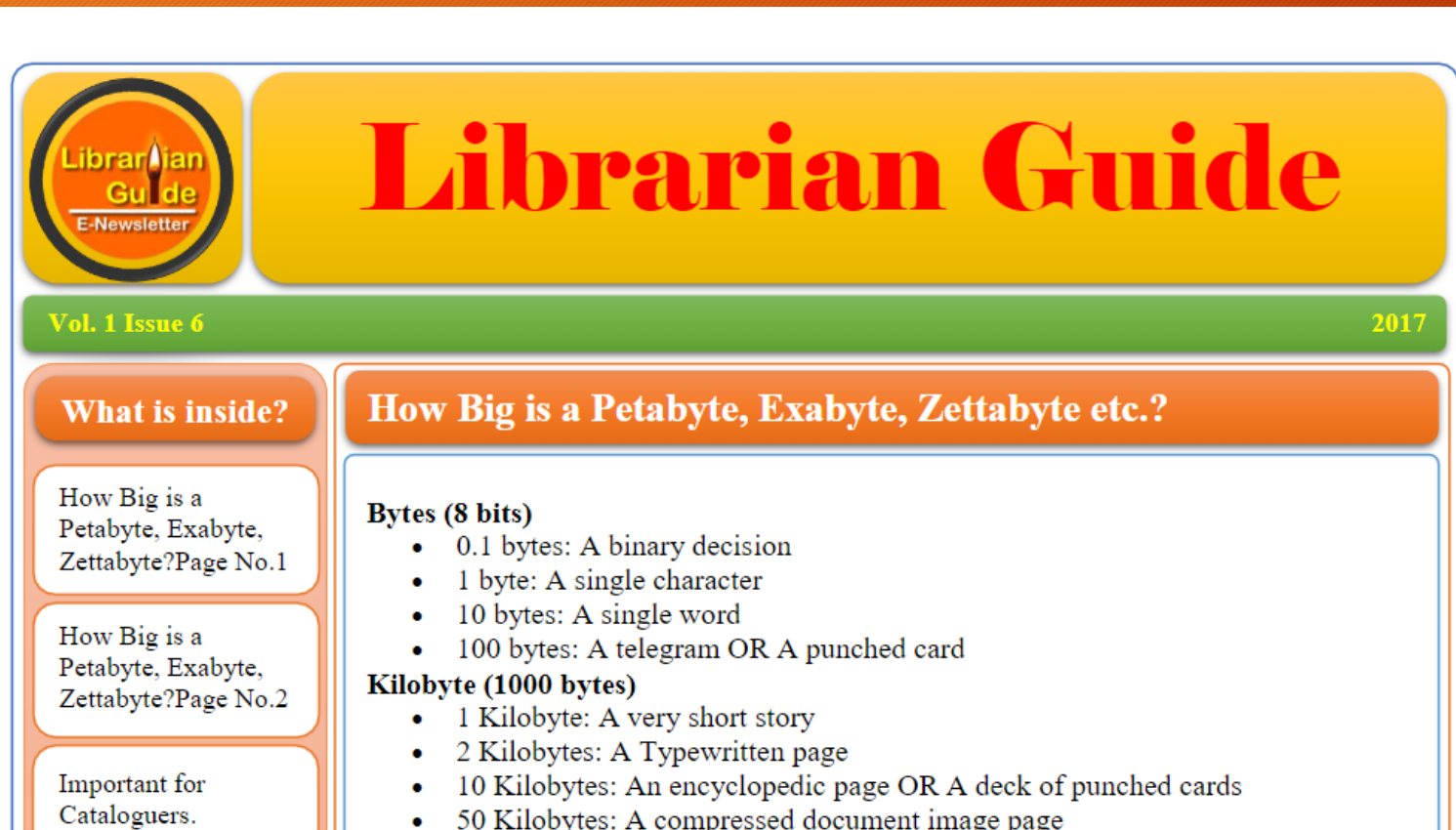
You can generate the QR Code for **URL, vCard, Text, E-Mail, SMS, Facebook, PDF, MP3, App Stores, Images** etc. You need to simply select one option and enter the information. See the example mentioned below.

I entered my website detail and created QR Code which generated the image at right. Now I can download the image and use wherever I want to use for my purpose.



- Website containing all the services
- List of e-resources:
- Contact of Library Staff as vCard
- Posters/Pamphlets:
- Workshop Banners:
- Information Literacy Pamphlets:
- Circulation Privileges QR Code
- Fine details QR Code
- OPAC QR Code
- New Arrivals List QR Code
- Login Page QR Code
- Announcements QR Code
- Download Page QR Code
- Google Map QR Code with location (How to reach?)
- WiFi access details:
- Create your own QR Code for vCard

# Design E-Newsletter with Publisher/Photoshop



- Tools
  - Adobe Publisher
  - Adobe Photoshop

# Research Support with Subject Plus



[Features](#)

[Requirements & Installation](#)

[Help!](#)

[About](#)

[Sites using SP](#)

[Download](#)



## SubjectsPlus

is a free and open source tool to help you manage several **interrelated parts** of your library website.



**Install**  
**SubjectsPlus**



**Create Users**  
Hey, now you have a  
staff list!



**Add Resources**  
...and a database list!



**Create Research**  
**Guides**



# Open Source @ Central Library, NIT Rourkela

## Koha - Integrated Library Management System

The screenshot displays the Koha library management system interface for the Biju Patnaik Central Library at NIT Rourkela. The top navigation bar includes the Koha logo, a shopping cart icon, a lists icon, and a link for 'Weekly New Additions'. On the right side of the header, there is a 'Log in to your account' link. Below the navigation bar is a large banner featuring the library's logo, the text 'Online Public Access Catalogue', and a quote: 'Books are for use, Every reader his/her book, Every book its reader, Save the time of the reader, The library is a growing organism'. A search bar is located below the banner, with a dropdown menu set to 'Library catalog' and a 'Go' button. The main content area is divided into several sections: a 'Home' link, a 'Video Tutorial On OPAC' button, a 'Welcome to Biju Patnaik Central Library Catalogue' message, a 'New Book Arrivals' section displaying a row of book covers (including 'Rockburst', 'Introduction to tunnel construction', 'Ground Engineering', 'Principles of Sedimentology and Stratigraphy', 'Principles of igneous and metamorphic petrology', 'Physical Methods of Geophysical Evaluation', 'Introduction to sedimentology', and 'Structural Design of Buildings'), a 'NITR Publications' section featuring a book cover for 'FUZZY ARBITRARY ORDER SYSTEM' with a description of a fuzzy fractional differential equations application, and a 'Default ID and Password' section with instructions to use NITRKL Webmail credentials and contact information (bpci-cir@nitrrkl.ac.in or 2107/2103).



# Open Source @ Central Library, NIT Rourkela

## E-Articles with DSpace - An Institutional Repository

The screenshot shows the homepage of the Biju Patnaik Central Library Institutional Repository at NIT Rourkela. The interface includes a navigation bar with 'Home', 'Browse', and 'Help' options, a search bar for DSpace, and a 'Sign on to' dropdown. The main header features the library's name in English and Odia, along with the text 'Institutional Repository' and the NIT Rourkela logo. A green banner below the header says 'Welcome to IR @ NIT Rourkela'.

**Recent Submissions**

Evaluation of antioxidant properties of Brown Seaweed Polysaccharides (BSP) for prebiotic studies [See](#)

Introduction: Human gut microbiota plays a magnificent role in balancing the condition of health and diseases. Globally, gut microbiota mediated immune system are gaining attention nowadays for the treatment of several health ailments such as diabetes, cancer and malnourishment. Bioactive compounds such as polysaccharides are found beneficial for enhancing the activity of gut microbes due to the stable existence of worthy dietary fibres. Marine macroalgae or seaweeds are the appropriate b...

**Useful Links**

- About NITR
- BPCL Home
- ETD @ NITR
- Open Access to Odiya Books
- Software Vault
- NPTEL Video Lectures
- Search in OAIster

**Submission Guidelines**

- Submission Guidelines
- SHERPA Copyright
- Latest Submissions (RSS Feed)
- DSpace - Help
- Contact Us

**Communities in DSpace**

Choose a community to browse its collections.

 National Institute of Technology- Rourkela <b>2911</b>
--

**Discover**

Author	Subject	Date issued
Mishra, S C <b>165</b>	Fly ash <b>23</b>	2010 - 2018 <b>1791</b>
Roy, G K <b>137</b>	OFDM <b>23</b>	2000 - 2009 <b>923</b>

# Open Source @ Central Library, NIT Rourkela

## E-Theses with EPrints - An Institutional Repository

The screenshot displays the homepage of the EThesis @ NIT Rourkela institutional repository. At the top, a blue banner features the text "Biju Patnaik Central Library National Institute of Technology Rourkela, Odisha - 769008" on the left and "EThesis @ NIT Rourkela" in large white letters on the right, accompanied by the NIT Rourkela logo. Below the banner is a navigation menu with links for Home, About, Year, Subject, Departments, Authors, Supervisors, and Thesis Type. A search bar is located on the right side of the menu. The main content area is titled "Welcome to ethesis" and includes RSS feeds for Atom, RSS 1.0, and RSS 2.0. The page is organized into three columns: the left column contains links for "Upload your thesis" (with instructions), "ethesis@nitr is indexed by:" (listing Google, OAster, Scientific Commons, and BASE), and "Policies"; the middle column provides a description of the repository, contact information for Mr. D.K. Pradhan, and a "For queries:" section; the right column includes a "Search Repository" section, a "Browse Repository" section with links for Year, Creators, Supervisors, Departments, and Subjects, and a "Latest Additions" section.

**Biju Patnaik Central Library**  
**National Institute of Technology**  
**Rourkela, Odisha - 769008**

## EThesis @ NIT Rourkela

Home | About | Year | Subject | Departments | Authors | Supervisors | Thesis Type

[Login](#) | [Create Account](#)

### Welcome to ethesis

Atom RSS 1.0 RSS 2.0

[Upload your thesis](#)

Instructions to upload thesis are here. Please read before uploading yours

ethesis@nitr is indexed by:

[Google](#)

[OAster](#)

[Scientific Commons](#)

[BASE](#)

and many other service providers..

[Policies](#)

Submitters, users and preservations policies are here

**ethesis@nitr** is the official institutional Open Access theses repository of [National Institute of Technology Rourkela](#). Here all theses produced by students as a partial fulfillment of degree are uploaded. For more details: [more](#)

For other institutional Open Access scientific outputs (Journal Papers, Conference Papers etc.) of NITR visit [dspace@nitr](#)

For queries:

Mr. D.K. Pradhan  
Biju Patnaik Central Library, NITR  
Email: [bpcl-dig@nitrkl.ac.in](mailto:bpcl-dig@nitrkl.ac.in)

[Search Repository](#)

Search the repository using a full range of fields. It is advanced search.

Browse Repository

[Year](#)

[Creators](#)

[Supervisors](#)

[Departments](#)

[Subjects](#)

[Latest Additions](#)

View recent items added to the repository



# Open Source @ Central Library, NIT Rourkela

## OAOB with EPrints - An Institutional Repository

**Biju Patnaik Central Library**  
**National Institute of Technology**  
**Rourkela, Odisha - 769008**

**Open Access to Odia Books**  
**(Project OAOB)**



[Login](#) | [Create Account](#)

[Home](#) | [Year](#) | [Subject](#) | [Titles](#) | [Authors/Editors](#)

Search

### Welcome to OaOb

[Atom](#) [RSS 1.0](#) [RSS 2.0](#)

[Search Repository](#)

**OAOB** is a not-for-profit project, initiated by [National Institute of Technology](#), Rourkela, [Srujanika](#), Bhubaneswar and Pragati Utkal Sangh, Rourkela. It disseminates the available information in Odia language treasured in our local libraries and individual collections. The project is made available online to millions of readers worldwide. An open access repository containing resources pertaining to Odia literature and culture, OAOB provides free access to researchers, scholars, historians, librarians, and the general public at all point in time.

The mission of the project is to preserve cultural history of Odisha by digitizing old, rare and new literary and other texts written in the Odia language. The primary focus is to digitize rare and copyright-free Odia documents (books, texts and manuscripts) which are under deteriorating condition in libraries, archives and individual collections in order to make them openly accessible to all.

Owing to the nature of the project, we also call upon people who could provide us access to their libraries and be part of the mission of free access to Odia books and promote the idea that knowledge and information should be accessible to all and should be free at all point in time.


**DISCLAIMER:**

WITHOUT ANY COMMERCIAL MOTIVE THE PROJECT IS FOR PRESERVATION OF THE LITERARY WORK AND FOR STUDENTS,ACADEMICIANS,RESEARCH SCHOLARS, PERSON WITH LITERARY INTEREST, HISTORIANS, LIBRARIANS AND PUBLIC WITH LITERARY BENT OF MIND FOR PRIVATE STUDY ONLY.

[Contact](#) (For any issue or feedback, please write to [bpcl-dig\[at\]nitrkl.ac.in](mailto:bpcl-dig[at]nitrkl.ac.in))

# Open Source @ Central Library, NIT Rourkela

## Subject Guide - A portal for Self Help



**Biju Patnaik Central Library**  
National Institute of Technology Rourkela

**Planning & Architecture**

[Subject / Research Guide](#) | [All Resources](#) | [Library Representative \(Liaison\)](#) | [Feedback & Suggestion](#) | [BPCL](#)

[Introduction](#) | [Books / E-Books](#) | [Magazines / E-Journals](#) | [Databases](#) | [Patents / Standards](#) | [Open Access Resources](#) | [E-Resources Usage Policy](#)

### About Planning & Architecture

The Department of Planning and Architecture (PA) was established in 2013 with the objective of amalgamating the aesthetics and technology together into a piece of art, in a creative way, not only to fulfil the societal need of shelter and to solve the infrastructure problem but also to take care of the emerging concern of energy and environmental issues.


Click on the link to read more - [Planning & Architecture](#).

### Using this Guide

This guide is designed to help you to locate and access below key resources available in this subject area on a single platform:

- Books and E-Books
- Magazines and E-Journals
- Subscribed Databases

### Library Representative (LR)



**Mr. D. P. Tripathi**  
Assistant Librarian  
Ph: 0661-2462110  
[tripathidp@nitrkl.ac.in](mailto:tripathidp@nitrkl.ac.in)

### Faculty Liaison Representative (FLR)

**Prof. Nabanita Saha**  
Department of Planning & Architecture  
NIT Rourkela  
Ph: 0661-2462760  
[sahan@nitrkl.ac.in](mailto:sahan@nitrkl.ac.in)



# Open Source @ Central Library, NIT Rourkela

## Library Website

**National Institute of Technology**  
Rourkela, Odisha  
India - 769008

बीजू पटनायक केन्द्रीय पुस्तकालय  
**Biju Patnaik Central Library**

Home Services Resources Catalogue Institutional Repositories Initiatives BPCL Events Quick Help Useful Links Contact Us FAQ

David Shulman  
**The PRESENTATION of SELF in CONTEMPORARY SOCIAL LIFE**

Christine Murray  
Amber Page  
Ben Willis  
**Sexuality Counseling**  
Theory, Research, and Practice

Silvia Maria Alessio  
**Digital Signal Processing and Spectral Analysis for Scientists**  
Concepts and Applications

Vitaly Na. Topolov  
Pavlo Bisevgia  
Christopher R. Bowen  
**Piezo-Active Composites**  
Orientation Effects and Anisotropy Factors

**SOCIAL SECTOR COMMUNICATION IN INDIA**  
CONCEPTS, PRACTICES, AND CASE STUDIES

ZARINA BHATTY  
**Purdah to piccadilly**  
A Muslim Woman's Struggle

**Announcements**  
Print Journals - 2017  
Click here for the full list of subscribed Print Journal 2015 by BPCL, NIT Rourkela....

**NITR Home**  
Search Book / Journals (OPAC)  
Search e-Books  
Search A/V Materials  
CDs available with Books  
Research Support Tool  
List of Full Text Resources

**Turnitin:** For creating a user id you have to mail to [hod-cc@nitrl.ac.in](mailto:hod-cc@nitrl.ac.in) with a copy to [manoj@nitrl.ac.in](mailto:manoj@nitrl.ac.in). The institute gives user id to all faculty and research scholars. All other students like B.Tech / M.Tech students have to enroll themselves with their teacher guide.

Search All Announcements Publications Downloads Statistics

**Latest Publications of NIT Rourkela**  
Advances in weld seam tracking techniques for robotic welding: A review 2019; Robotics and Computer-Integrated Manufacturing; Rout, A. | Deepak, B.B.V.L. | Biswal, B.B.  
Free vibration study of multilayer sandwich spherical shell panels with viscoelastic core and isotropic/laminated face layers 2019; Composites Part B: Engineering; Biswal, D.K. | Mohanty, S.C.

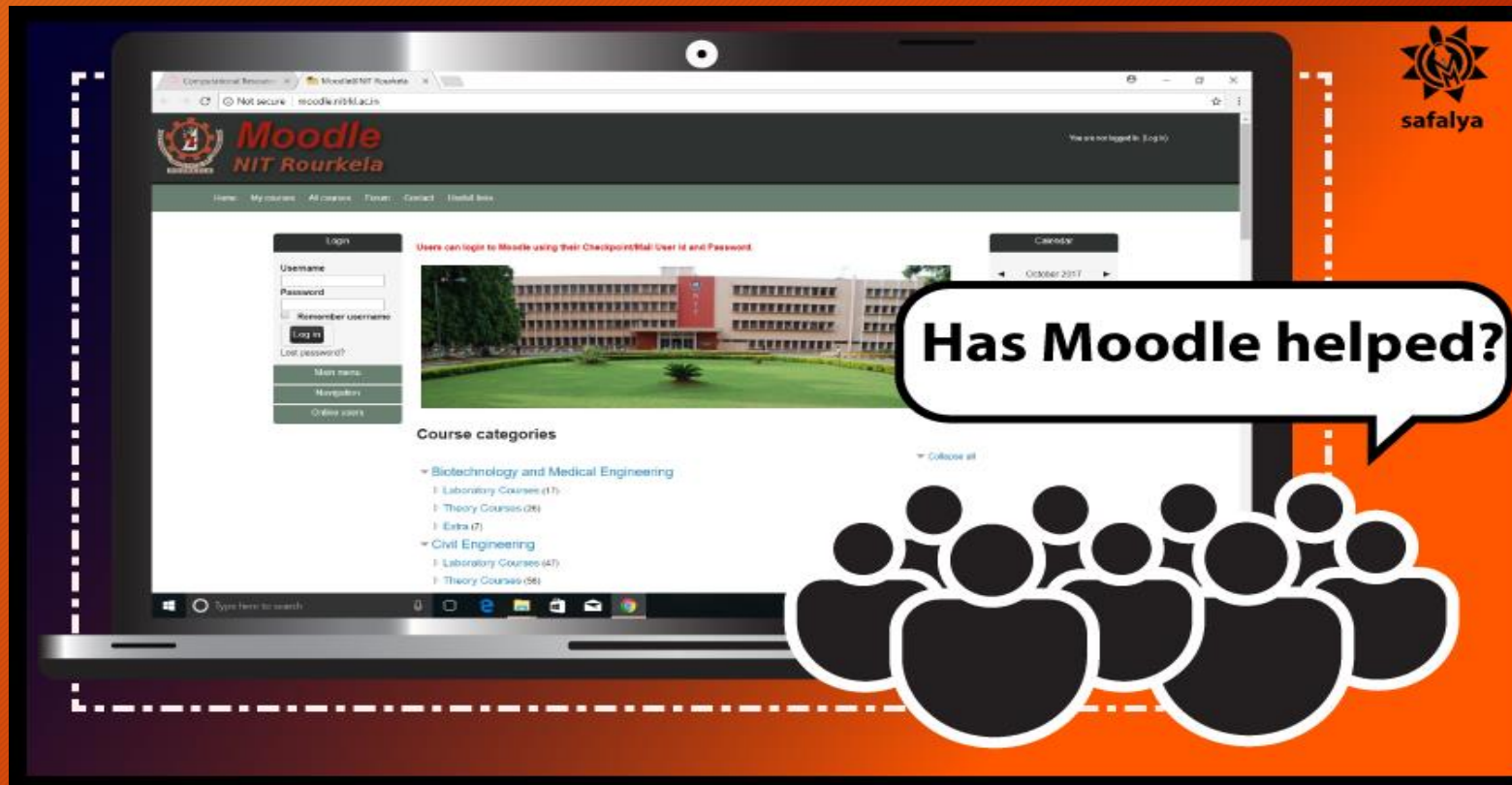
**NIT Rourkela Digital Library**  
Powered by Refread

**New Arrivals**

**World**

# Open Source @ Central Library, NIT Rourkela

## Moodle @ NIT Rourkela



The image shows a laptop displaying the Moodle NIT Rourkela website. The browser address bar shows "moodle@nitkl.ac.in". The website header includes the Moodle logo and "NIT Rourkela". A navigation menu contains "Home", "My courses", "All courses", "Forum", "Contact", and "Useful links". A login form is visible with fields for "Username" and "Password", and a "Remember username" checkbox. Below the login form, there are links for "Main menu", "Navigation", and "Online users". A central banner image shows a building. To the right, there is a "Calendar" widget showing "October 2017". Below the banner, "Course categories" are listed, including "Biotechnology and Medical Engineering" and "Civil Engineering".

**Has Moodle helped?**

**safalya**

Group of people icon





Let us see some  
Advance Tools for Libraries in Next Slides



# Advance Tools for Libraries & Librarians



**D. P. Tripathi**

[www.dpatripathi.co.in](http://www.dpatripathi.co.in)

[dptnitrkl@gmail.com](mailto:dptnitrkl@gmail.com)

# Augmented Reality App



- librARi is a concept of an image based augmented reality application, created by Pradeep Siddappa.
- The app would point you to the new arrivals.
- It would also be able to find and point to similar books.
- Simple, but useful, and very probable.



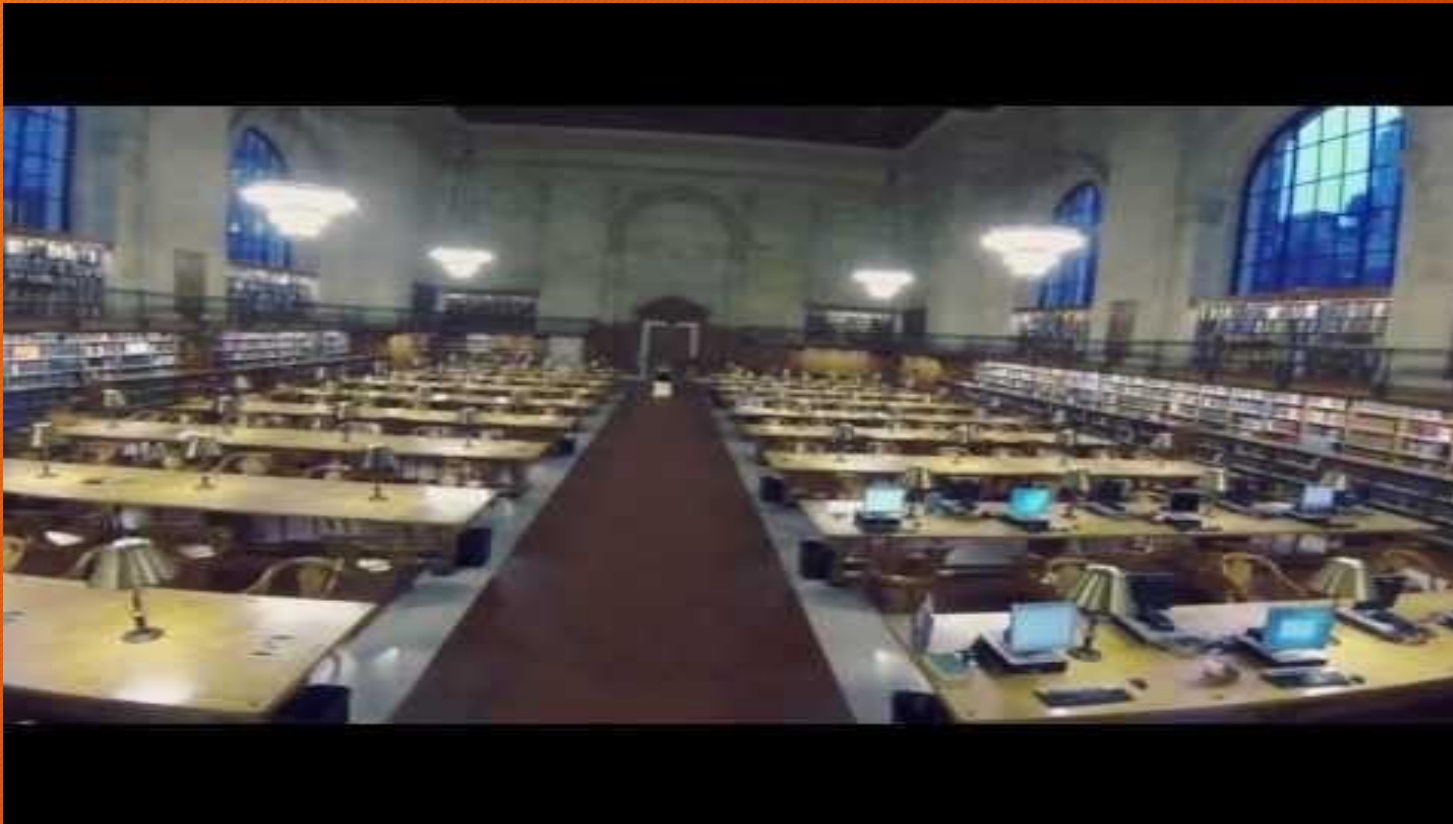
# Book Delivery Drone



- The future belongs to unmanned flying machines, and just like Amazon drones can deliver the goods to customers, libraries could deliver the books to patrons.
- Australian start-up Flirtey has teamed up with a book rental service Zookal to create - the first in the world - textbook delivery system.

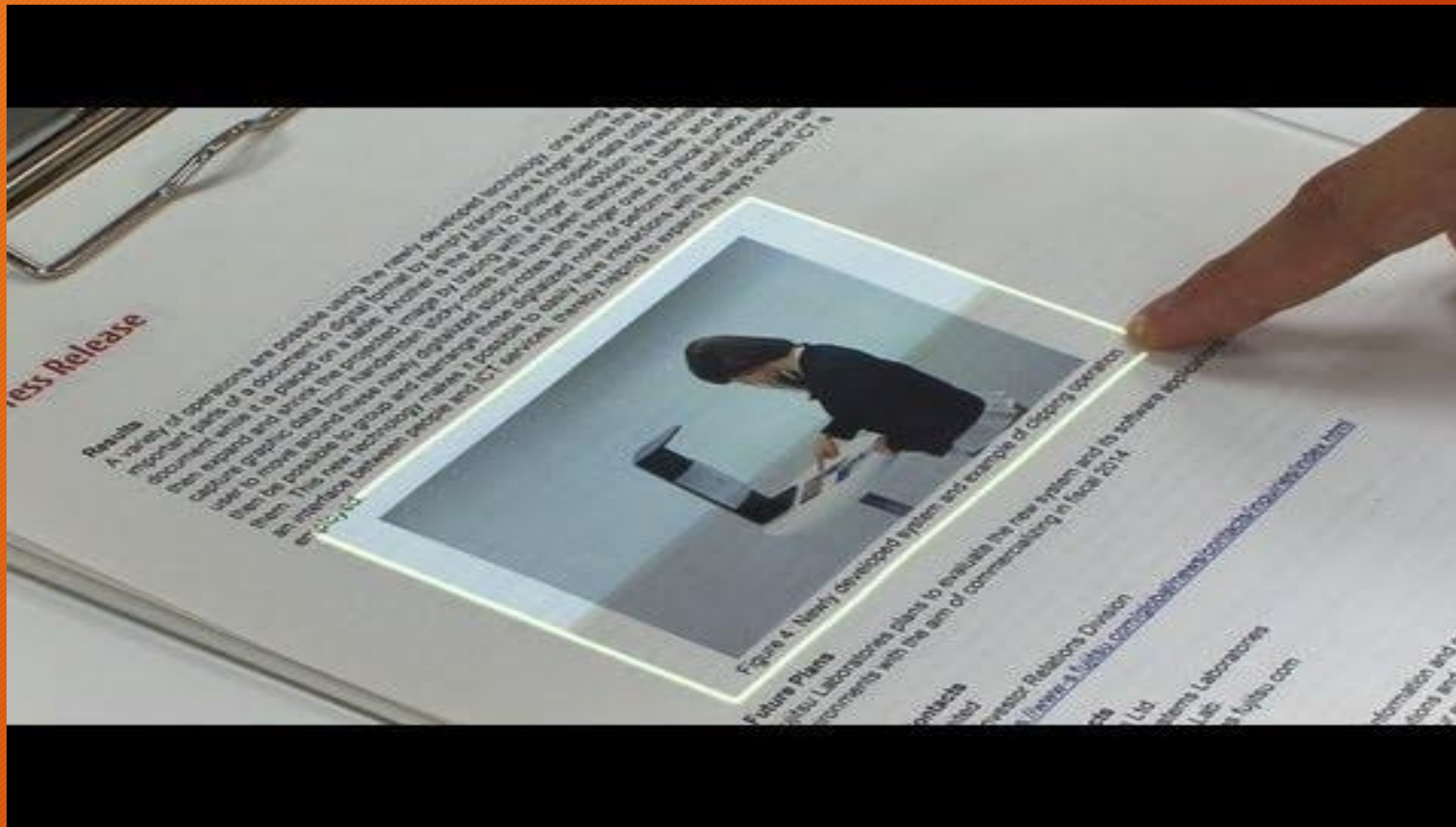


# Book Delivery Drone



- The system is using hexacopters, drones with six rotors, to deliver ordered textbooks. Now, the smart thing is that the drone can find you by the location of your smartphone, so there is no need to give a fixed address.
- Nate Bolt created with cooperation with NYPL Labs, a beautiful, nostalgic video that will let you feel like quietly flying over the hall, corridors, and reading rooms of the library. Seems like it was the first drone ever inside the NYPL.

# Digital Interface for Print Book - FingerLink



- FingerLink is a project currently developed by Fujitsu that will let you use digital tools to work with a printed book.
- It's a stand you can put on a library desk. It includes two elements: a camera to read the info from the real world, and the projector to display digital info in the real world.



# Digital Interface for Print Book - FingerLink



- Simply, place the book on a table under the stand, and you'll see extra options, available for the book. It's because everything what FingerLink "sees" can be available and editable in a digital form.



# Nimble - A smarter way to read



- Nimble is a wonderful concept by a London-based interactive designer and Google engineer Sures Kumar.
- Nimble does not only offer digital enhancement of a print book, but also incorporates the idea featured earlier in the post - the turn-by-turn library guide.

# Nimble - A smarter way to read



- All these features can be accessed using the smart library card. An all-in-one solution to let patrons use the digital books to work with whichever content they want.
- Simply, select content (and it's easier than you think), and you will:
  1. look for more information in Google or Wikipedia,
  2. share the selected text in social media,
  3. capture the image.



# Ivy Guide



- There is a cheaper alternative. A library could offer patrons a variety of small utensils they could borrow to use in the reading room.
- The real-to-digital highlighter would be connected to a computer. When you highlight something - move along the text in a print book - it will immediately appear in the notepad app on a computer. All your highlights would be collected in a single text document.

# Ivy Guide



## *Pure and Lightweight*



A charger with a USB interface is designed to well fit the translator. When combined, they can be put in your pocket or case.

When you are finished, simply send this note to your email address. The note will self-destruct the moment you close it.

Such library utensils would be useful for less tech-savvy library patrons or those who don't use advanced apps (for instance the ones with OCR - optical character recognition) on their phones.



# Mobile Library Centre - Idea Box



- The Ideas Box is a revolutionary concept developed by Librarians Without Borders, with the aim to reach people in refugee camps and impoverished countries, but could be also used any time the idea of a mobile library is considered.



# Mobile Library Centre - Idea Box



- The most thrilling thing about this modern library center is that it can be assembled in less than **20 minutes**.
- The Idea Box is a portable toolkit - standardized, easy to transport and set up. The kit consists of six boxes (including library and internet access), fits on two palettes, and creates a space of **1,000** square meters.

# Mobile Library Centre



- The library box includes 250 paper books, 50 e-readers with thousands of ebooks, and a variety of educational apps.
- <https://www.bibliosansfrontieres.org/ideas-box/>



# Print on Demand Machine



- Espresso Book Machine (EBM) is a real product. Manufactured by Xerox, it's sold by On Demand Books.
- It can make a paperback book while you wait, printing up to 150 pages per minute.
- The machine is connected to an online catalog of over seven million in-copyright and public domain books, but institutions using EBM can also print custom titles.
- [http://ondemandbooks.com/ebm\\_overview.php](http://ondemandbooks.com/ebm_overview.php)

# Library Bookmark and Guide



- First of all, the device would be a perfect companion when navigating through the library, by giving turn-by-turn directions to the book the patron wants.
- The device could also keep track of all borrowed books, as well as remind the user of the return dates.
- Finding a book easily without knowing the Dewey Decimal Classification system? Sounds like a good idea of where the library card could evolve.



# Virtual Reality



- Library can now offer a new attractive format for the same experience.
- Offer the users the chance to play, learn and explore other places just by sitting in the comfort of their local library.
- At the same time, virtual reality can be used to bring the library closer to the users by creating virtual tours of the library or even virtual workshops and training.

# Cloud Based Printing Solution



- Princh is an innovative library printing solution that saves time and administration.
- With Princh's user-friendly and cloud-based printing solution, users can print directly from their smartphone, laptop or from the library computers.
- There's no need to set up a printing account and electronic payment is integrated with the option of paying by bank cards, mobile or cash.



# User Focused Interfaces & Application



- Digital Exhibitions featured on screens, big screens in libraries that can be used to offer different kinds of information and also inspire users to find certain books or a simple display that allows taking a 'selfie'; libraries can use technology to create a digital experience for the user.



# Robots - Automated Storage and Retrieval



- There is a number of libraries who have already successfully implemented some kind of automated technology.
- For example, the Joe and Rika Mansueto Library in Chicago has an automated storage and a retrieval system housed in a large underground space.



# Robots - To help teach coding & programming



## Coming Soon to the Library: Humanoid Robots

They Can Speak in 19 Languages and Even Do Tai Chi



Connecticut's Westport Library recently acquired two robots, Vincent and Nancy, that will be used to help teach coding and computer-programming skills. Photo: Danny Ghitis

- Connecticut's Westport Library recently acquired two robots, Vincent and Nancy.
- That will be used to help teach coding and computer-programming skills.
- It's a very good way to get people's attention and raise their interest in technology and most importantly about the library.

# Robots - To help teach coding & programming



- <https://www.wsj.com/articles/coming-soon-to-the-library-humanoid-robots-1412015687>



# Cloud Technologies



- Cloud hosting provides more reliability, better performance, and stronger security than local implementation. It can help libraries prepare for growth and the deployment of other cost-effective technologies. The most considerable benefit for librarians is the convenience factor.
- The ability to work from anywhere, the flexibility of using any device, and automatic software updates are a few significant advantages of shifting to Cloud Hosting. When you have access to cloud technologies, you can focus more of your time on students and programs instead of IT.



# Cloud Technologies



EBSCO	Proquest	Follett Corporation	SpringShare	Open Athens	Elsevier-Bepress	Atmire
<ul style="list-style-type: none"><li>• EBSCO Discovery Services</li><li>• FOLIO Library Service Platform</li><li>• EBSCO Stacks</li><li>• Full Text Finder</li><li>• GOBI library Solution</li></ul>	<ul style="list-style-type: none"><li>• Summon</li><li>• ALMA Library Service Platfrom</li><li>• OASIS Collection Manager</li><li>• Ulrich Web</li></ul>	<ul style="list-style-type: none"><li>• Follett Distiny ( Mainly School Libraries)</li></ul>	<ul style="list-style-type: none"><li>• Libguides</li><li>• LIBCAL</li><li>• LIBWIZARD</li><li>• LIBInsight</li></ul>	<ul style="list-style-type: none"><li>• MyAthens Single Sign on Thing</li></ul>	<ul style="list-style-type: none"><li>• Digital commons repository</li><li>• Journal hosting</li><li>• Expert Gallery</li></ul>	<ul style="list-style-type: none"><li>• Dspace Express</li><li>• Open repository</li><li>• Custom Dspace</li></ul>

Image Courtsey: Mr. Nikesh N.

# Cloud Technologies



Free and open  
access cloud  
services

## Google Scholar

- Discovery
- Library Links
- Campus Activated Subscriber Access (CASA)

## Harvard Dataverse

- Repository for Research data management

## CrossRef

- Metadata and Discovery

# Single Sign-on Technology



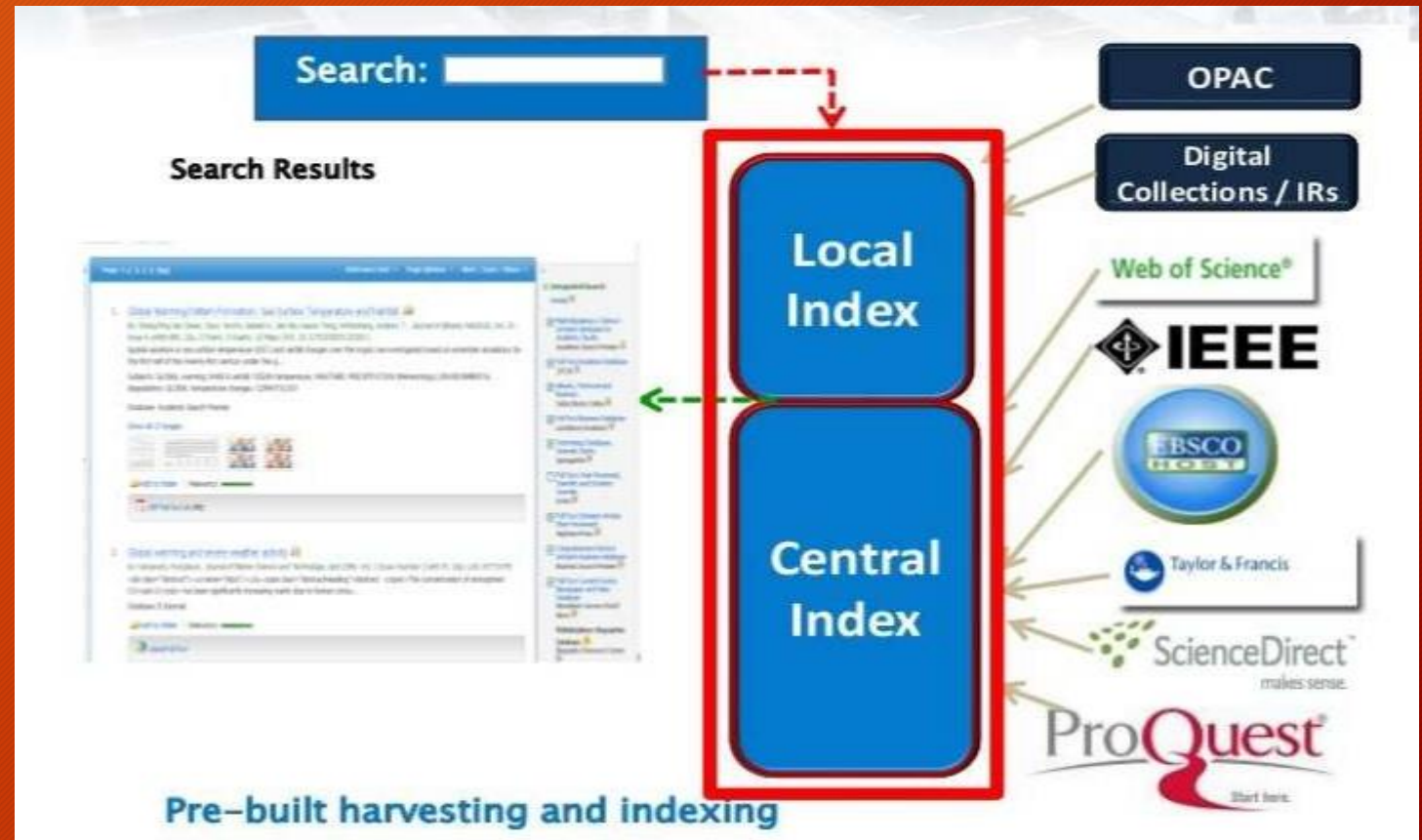
- A one-stop shop for students, single sign-on technology allows institutes and libraries to manage their users' login-in credentials from a centralized system.
- Libraries can save time with automatic account creation and updates.
- Students benefit by having further access to learning materials.



# Web-scale Discovery Services



- Library OPAC
- Digital Repository
- E-Book Collections
- Article
- E-Resources
- Standards
- E-Cases etc.



# Electronic Resource Management (ERM)



- CORAL is an electronic resources management system consisting of interoperable modules designed around the core components of managing electronic resources for libraries and other organizations.
- CORAL is available as a free, open source program.

The screenshot shows the CORAL website homepage. At the top left is the CORAL logo. To its right is a navigation menu with links for Home, News, Modules, Download, Documentation, Live Demo, and About Us. The main content area features a large underwater coral reef image with the text "Welcome to a Flexible, Innovative, and Intuitive ERMS" overlaid in white. Below this text is a white button that says "Download CORAL now". At the bottom of the page, there is a blue banner with the text "eRM • eResource Management" and a "Change language" dropdown menu. Below the banner are five icons representing different modules: Resources (a circular arrow), Licensing (a pen nib), Organizations (a building), Usage Statistics (a line graph), and Management (a gear).



# Impact on Libraries



- Library Housekeeping Operations (Acquisition, Cataloguing, Circulation, ERM, Serial Control)
- Information Capture (Key board, Scanner, Digital Cameras etc.)
- Storage (PCs, CDs / DVDs, Pen drives, Portable HDs and Cloud)
- Identification (Barcode, RFID, Biometric, Persistent Identifiers, DOI etc.)
- Databases (Books, articles, reports, aggregators, publishers, IRs, etc.)
- Digital / Institutional Repositories (DSpace, Greenstone, EPrints etc.)
- Library Automation with RFID (More Secure and Accuracy)
- Networking (Client Server, Social Networking, Resource Sharing etc.)
- Information Retrieval
- Information Services (OPAC, e-Newsletter, Alert Services etc.)
- Marketing of Library Services has become easy
- Communication (Easy and Fast)



# Impact on Libraries



Lack of knowledge about ICT application

Inadequate ICT Infrastructure

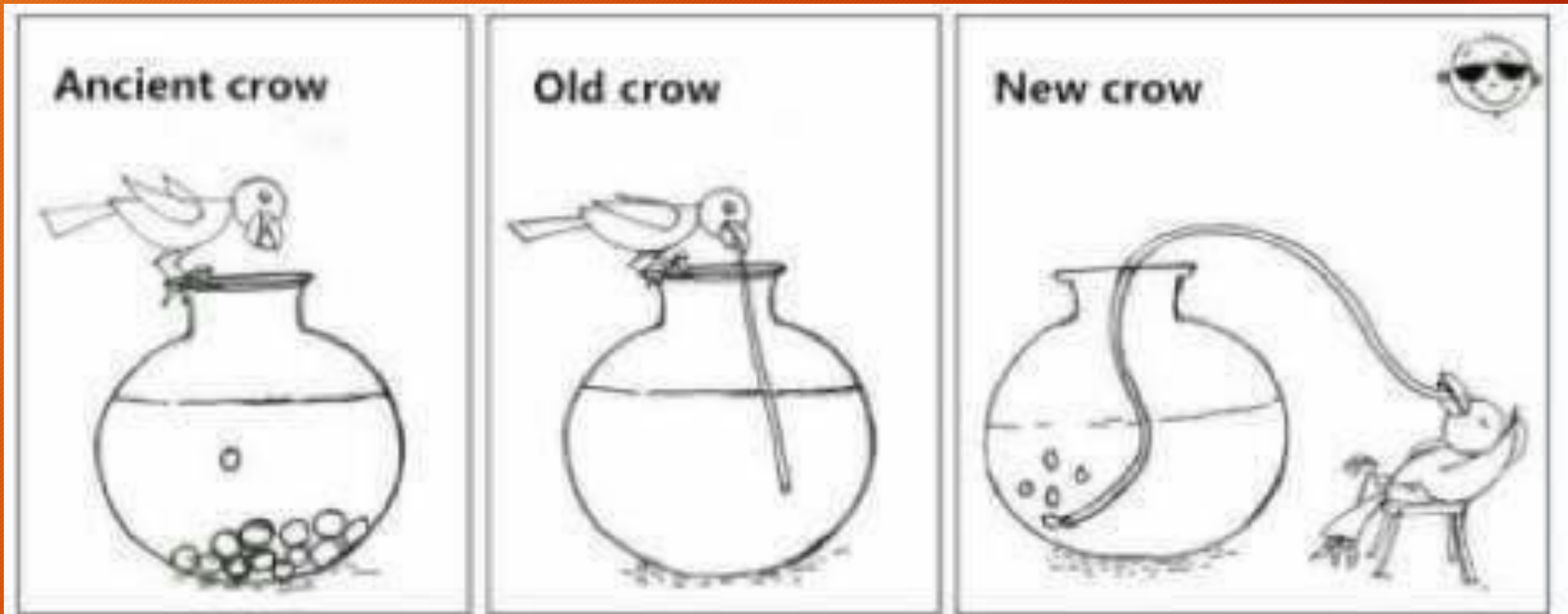
Lack of policies

Lack of staff

Manpower and their skills

Legal Issues

# Skill Development



**Keep upgrading your skills !!**

# Questions, feedback?



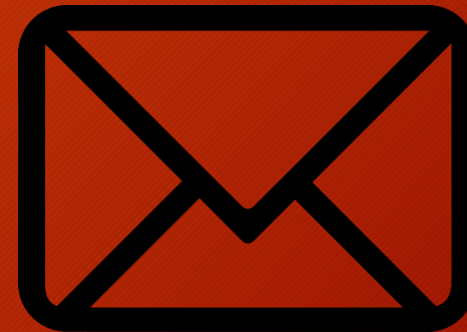
**Complete the survey**

- Email to you after the session



**Contact Me**

- [dptnitrkl@gmail.com](mailto:dptnitrkl@gmail.com)





An illustration on a light blue background showing two hands holding a horizontal orange banner. The banner has the words 'THANK YOU' written in large, white, bold, sans-serif capital letters. The hands are light-skinned and are wearing dark suit sleeves with white cuffs. The banner is held up by two black vertical bars, one on each side.

**THANK  
YOU**