ACCESSING INDIA'S OPEN EDUCATIONAL RESOURCES

Anup Kumar Das

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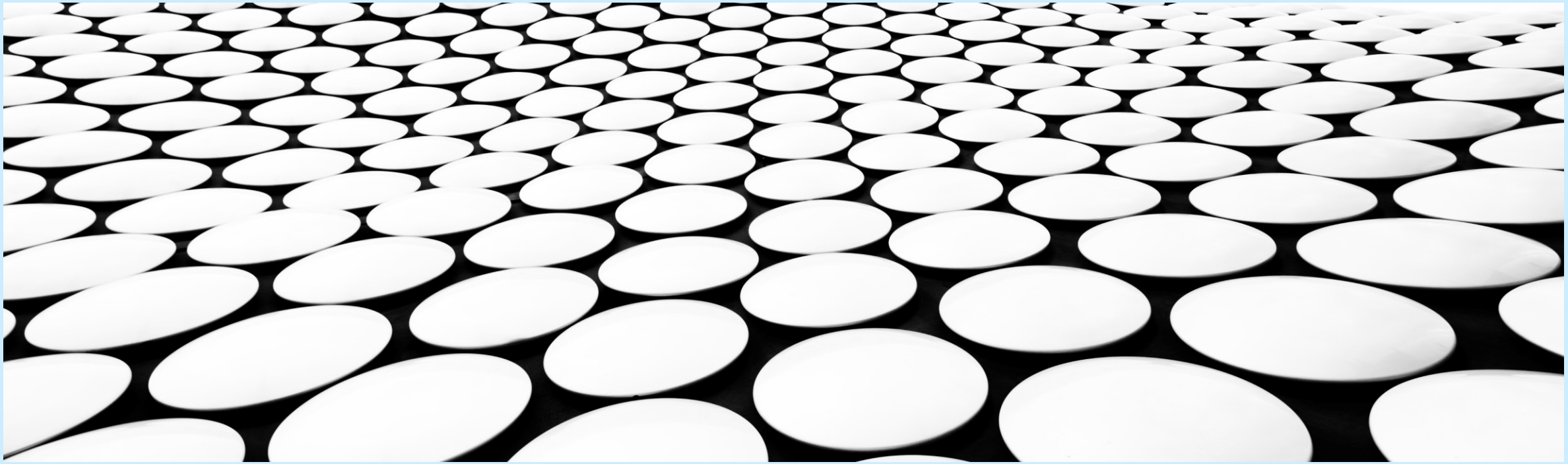
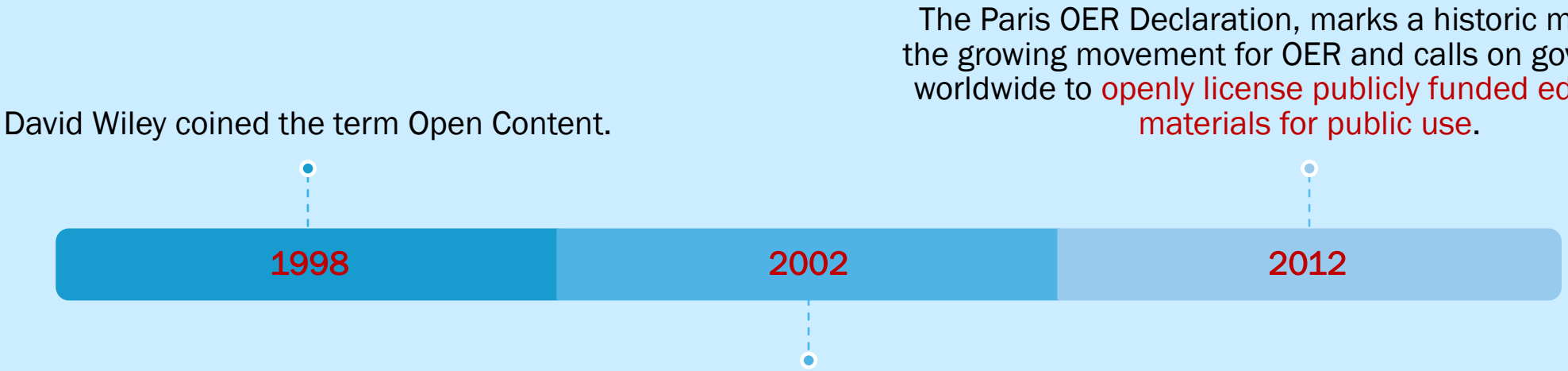


Presented in Sonamukhi College's National Webinar on Awareness of eResources and Their Access by the Academic Community to overcome the COVID19 Pandemic on 21st September 2020

OER – MILESTONES



WHAT IS OER?

WWW.GOOPENMICHIGAN.ORG

#1 Free learning materials that can be downloaded, edited & shared to better serve all students.

#2 Users have all rights to retain, reuse, revise, remix, and redistribute OER content.

#3 A broad range of high-quality resources.

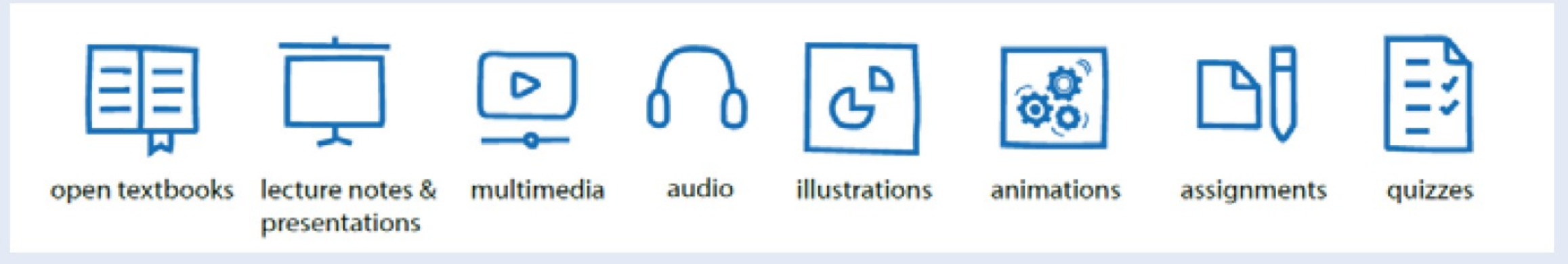
#4 Give schools more local control of content and curriculum.

#5 Enable flexibility to reallocate resources to support teaching and learning.

What is OER?

- UNESCO's 2002 Forum on Open Courseware designates the Open Educational Resources (OER) as "teaching, learning and research materials in any medium, digital or otherwise, that reside in the public domain or have been released under an open license that permits no-cost access, use, adaptation and redistribution by others with no or limited restrictions. Open licensing is built within the existing framework of intellectual property rights as defined by relevant international conventions and respects the authorship of the work".
- Source: 2012 Paris OER Declaration.

Different Types of OER in the Field



Source: *Guidelines on the Development of Open Educational Resources Policies*, UNESCO & COL, 2019.

Five Freedoms of OER

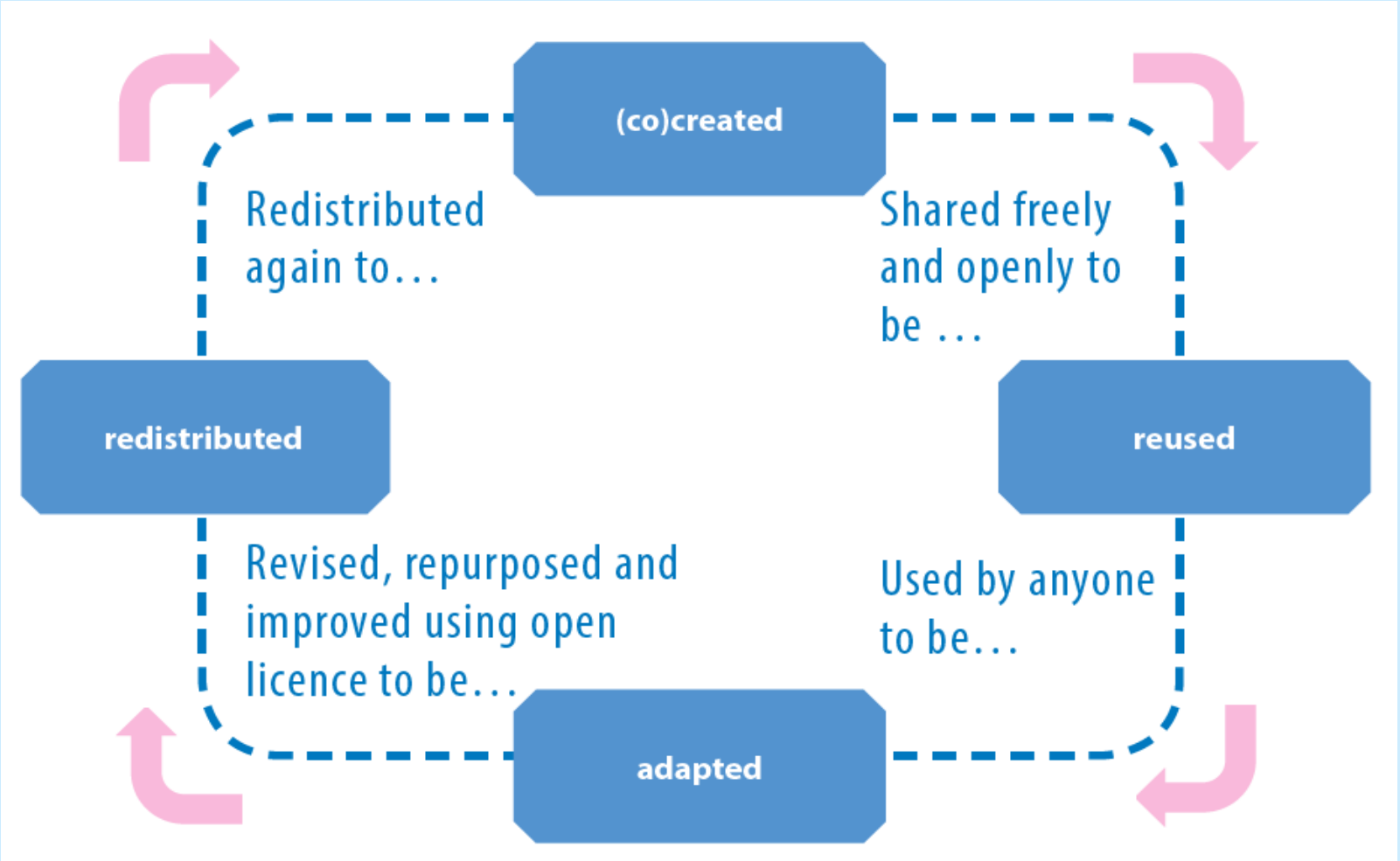
Source: *Guidelines on the Development of Open Educational Resources Policies*, UNESCO & COL, 2019.

As stated in the OER definition, the openness in OER is enabled by open licensing, which gives users free and permanent permission to adapt and reuse.

According to the concept of the **'Five Freedoms' of OER**, this means specifically:

1. **Retain** – the right to make, own and control copies of the content (e.g., download, duplicate, store and manage)
2. **Reuse** – the right to reuse the content verbatim or in its unaltered form (e.g., download, duplicate, store and manage)
3. **Revise** – the right to adapt, adjust, modify or alter the content itself (e.g., translate the content into another language)
4. **Remix** – the right to combine the original or revised content with other content to create something new (e.g., incorporate the content into a mashup)
5. **Redistribute** – the right to make and share copies of the original content, revisions or remixes with others (e.g., give a copy of the content to a friend)

Envisaged Lifecycle of OER Made Possible through the Five Freedoms



Source: *Guidelines on the Development of Open Educational Resources Policies*, UNESCO & COL, 2019.

2012 Paris OER Declaration

Recommends that States, within their capacities and authority:

- a. Foster awareness and use of OER.
- b. Facilitate enabling environments for use of Information & Communications Technologies (ICT).
- c. Reinforce the development of strategies and policies on OER.
- d. Promote the understanding and use of open licensing frameworks.
- e. Support capacity building for the sustainable development of quality learning materials.
- f. Foster strategic alliances for OER.
- g. Encourage the development and adaptation of OER in a variety of languages and cultural contexts.
- h. Encourage research on OER.
- i. Facilitate finding, retrieving and sharing of OER.
- j. Encourage the open licensing of educational materials produced with public funds.

Global Initiatives

Donate to ISKME
Display Settings
OER COMMONS
OPEN EDUCATIONAL RESOURCES
Discover
Hubs
Groups
Our Services
Add OER
Sign In/Register
Explore. Create. Collaborate.
OER Commons is a public digital library of open educational resources. Explore, create, and collaborate with educators around the world to improve curriculum.
What are you looking for?
Subject
Education Level
Standard
Search
Fine tune your sea
Education Level
Preschool
Lower Primary
Upper Primary
Middle School
High School
Community College / Lower Division
College / Upper Division
Graduate / Professional
Career / Technical
Adult Education
https://www.oercommons.org
We're here to support your
needs
Lear
OER Commons is a public digital library of open educational resources. Explore, create, and collaborate with educators around the world to improve curriculum.
Welcome OER Community
Create OER with Open Author
Open Author helps you build and publish Open Educational Resources for you and for the benefit of educators and learners everywhere.
Get Started
Learn more about creating OER
Help

Search Resources

SWAYAM

Search

Advanced Search

Filter By

- Education Standards
- Subject Area
- Education Level
- Material Type
- License Types
- Content Source
- Primary User
- Media Format
- Educational Use
- Language
- Providers

Search results: SWAYAM *(26)*

Per page 50 Sort By Relevance View

Conditional Remix & Share Permitted

CC BY-SA

OER-V: OER in India and SWAYAM

Rating

The Topic introduces various OER repositories in India including the SWAYAM. It also focus the challenges and tips for adopting OERs for beginners.

Less

Subject: Education, Higher Education
Material Type: Module
Author: AJAY SEMALTY
Date Added: 08/31/2018

Unrestricted Use

Public Domain

Genomics Teaching Tools

Rating

This website provides useful tools to teach genetics and genomics

Subject: Genetics
Material Type: Lecture Notes
Provider: National Human Genome Research Institute
Date Added: 08/28/2019

Enroll in Plant Genetic Resources

Rating

It is a useful and essential course.

Subject: Applied Science
Material Type: Homework/Assignment

Help

Search Resources

Anup Kumar Das

Search

Advanced Search

Filter By

- Education Standards
- Subject Area
- Education Level
- Material Type
- License Types
- Content Source
- Primary User
- Media Format
- Educational Use
- Language
- Providers

4 Results

Per page 20 Sort By Relevance View

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Scholarly Communication

Rating

Researchers, scholars and scientists main business is scholarly communication. We communicate about ...

More

Subject: Career and Technical Education, Educational Technology, Higher Education
Material Type: Full Course, Module, Textbook, Unit of Study
Author: Anup Kumar Das
Date Added: 09/12/2018

Conditional Remix & Share Permitted

CC BY-SA

Research Evaluation Metrics

Rating

This module dwells on a number of methods (including old and new) ...

More

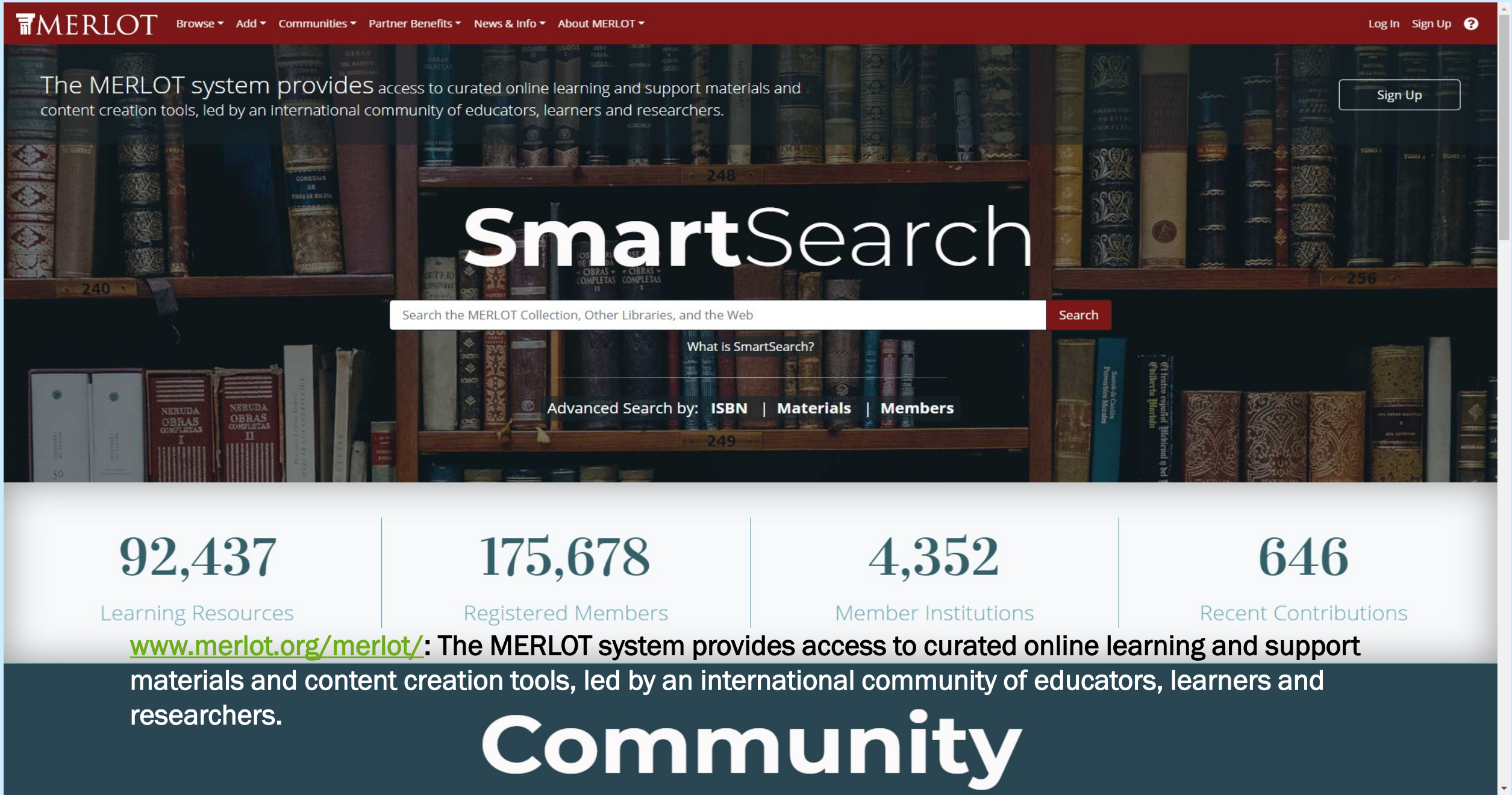
Subject: Information Science, Career and Technical Education, Education, Higher Education
Material Type: Full Course, Module, Textbook, Unit of Study
Author: Anup Kumar Das
Date Added: 09/12/2018

Introduction to Open Access

Rating

Progress of every profession, academic discipline and society at large rides on ...

Help



www.merlot.org/merlot/: The MERLOT system provides access to curated online learning and support materials and content creation tools, led by an international community of educators, learners and researchers.

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Search keywords, title, URL, ISBN, or author Search Advanced Search Options

Home / Material Search Results: NPTEL

MERLOT Collection | Other Libraries | The Web

Sort by Relevance

Show results for

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Learning Exercises
Bookmark Collections
Course ePortfolios
Peer Reviews
Communities

Filter by

Discipline

Academic Support Services (2)
Business (1)
Education (1)
Humanities (1)
Science and Technology (5)
Workforce Development (1)

Material Type

Collection (2)
Learning Object Repository (1)
Online Course Module (1)
Open (Access) Textbook (1)
Presentation (2)
Simulation (1)

Audience

Grade School (2)
Middle School (2)
High School (2)
College General Ed (3)

1-8 of 8 results for: NPTEL

NPTEL :: Computer Science and ...

Online course MAterial for Compiler Design

Material Type: Online Course Module
Author: Professor Sanjeev .K. Aggarwal
Date Created: June 14, 2017
Date Modified: August 30, 2017

More info
Bookmark Go to material

National Programme on Technology...

NPTEL YouTube channel provides e-Learning for students through online web and video courses in Engineering, Science, and... see more

Material Type: Presentation
Author: NPTEL Staff
Date Created: June 21, 2014
Date Modified: June 25, 2019

More info
Bookmark Go to material

National Programme on Technology...

This webpage features video courses funded by the Indian Government in the following areas (constantly being loaded as... see more

Material Type: Collection
Author: Indian Institutes of Technology
Date Created: July 18, 2016
Date Modified: October 25, 2019

More info
Bookmark Go to material

SWAYAM: India's Open Education/MOOC...

SWAYAM is an [Open Education/MOOC platform] programme developed by the Government of India to provide free high-quality... see more

Material Type: Learning Object Repository
Author: SWAYAM and Seven National Coordinators
Date Created: May 27, 2017
Date Modified: October 14, 2019

More info
Bookmark Go to material

Virtual Labs India

Engineering Education is incomplete without hands on learning of real systems. IIT Kharagpur having a very strong base in... see more

Material Type: Simulation
Date Created: August 16, 2020
Date Modified: August 16, 2020

More info
Bookmark Go to material

TRANSIENT HEAT CONDUCTION IN LARGE...

Unlocking the Gates: How and Why...

My Open Courses App for Android

https://www.merlot.org/merlot/materials.htm?keywords=NPTEL

Indian Initiatives

MHRD | Department of Higher Education
Ministry of Human Resource Development
Government of India
National Mission on Education through ICT (NME-ICT)

NMEICT | Press Release | Technology Enabled Learning | Contact Us

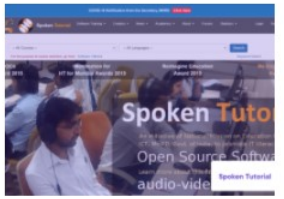
Key ICT Initiatives

All | Accelerated Hands on learning | Audio-Video e-content | Digital content | E - Goverenence | Track your progress

Shodh Shudhhi (PDS)

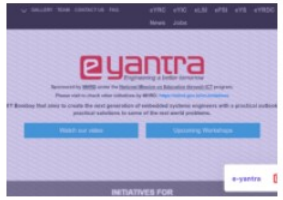
VIDWAN

Virtual Labs

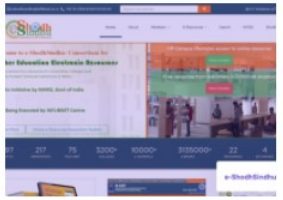


Spoken Tutorial

Fossee



e-Yantra

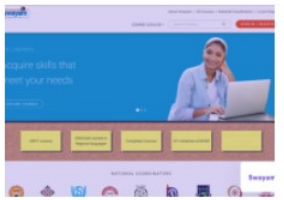

E-ShodhSindhu

Shodhganga

National Digital Library

e-PG Pathshala

SWAYAMPRABHA


Swayam

http://NMEICT.ac.in

The National Mission on Education through Information and Communication Technology (NMEICT), launched in February 2009, has been envisaged as a Centrally Sponsored Scheme to leverage the potential of ICT, in teaching and learning process for the benefit of all the learners in Higher Education Institutions in any time any where mode.

CMM_21-09_Cau....html | CMM_23-09_Cau....html | Show all

VIDYA-MITRA
INTEGRATED E-CONTENT PORTAL
A GATEWAY TO ALL LEARNERS
http://vidyamitra.inflibnet.ac.in
An MoE Project
National Mission on Education through ICT (NME - ICT)
HOME
ABOUT
MY-SPACE/LOGIN
UPLOADED CONTENT
CONTRIBUTE YOUR CONTENT
FEEDBACK
FAQS
CONTACT US
Free Text
Exact Search
Search...
Search
@Vidya-mitra
e-Text
44450
e-Tutorial/videos
66174
Others
37827
Advanced Search
Search...
Search
Title Only
Institute Only
Subject Only
Free-text
Exact Search
UG
PG
Other
e-Tutorial
e-Text
Content for Learners
Under Graduate
46515
Post Graduate
20487
Others
4753
Search subject
Arts, Humanities & Languages
Engineering and Technology
Physical & Basic Sciences
Vidya-mitra
The INFLIBNET Centre has developed a web-based interface called "Vidya-mitra: Integrated e-Content Portal" for all e-content projects, developed / funded under the National Mission of Education through ICT. There are more than 50 projects on e-content under NME-ICT which are developed / being developed in various subject disciplines (science, arts, engineering, social science, etc) through various Indian institutes / universities / colleges
View All Projects
Latest @Vidya-mitra
Content of 35+ project has been uploaded in the platform. More content from different projects are being uploaded

Salient Features of Vidya-Mitra

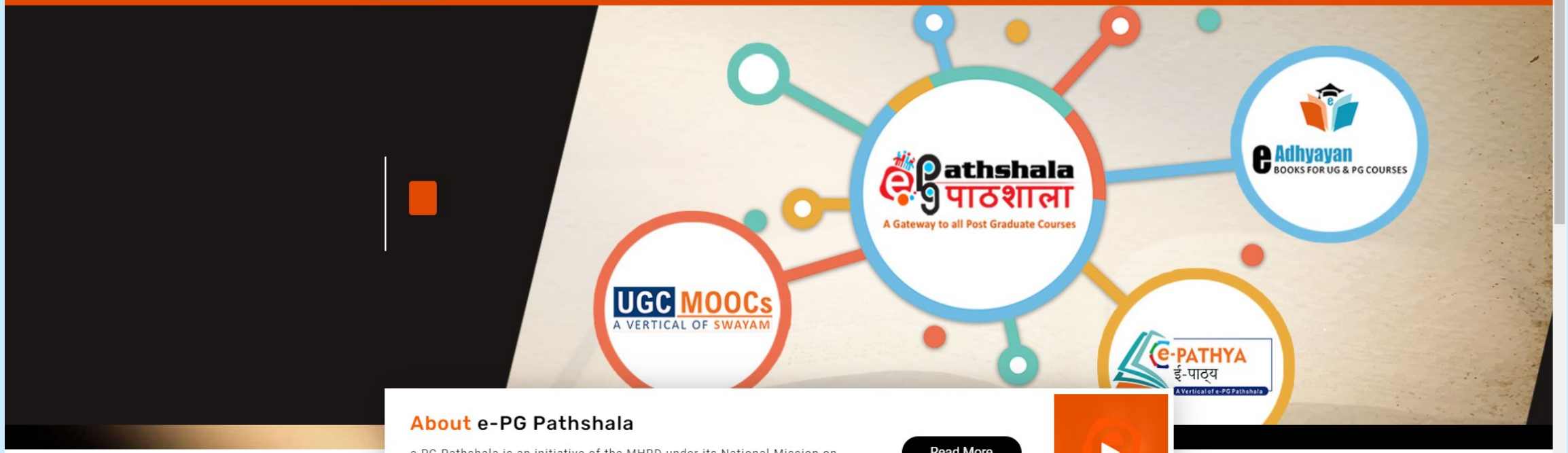
- Developed by the INFLIBNET Centre, "Vidya-Mitra: Integrated e-Content Portal" is a web-based interface for all e-content projects, developed or funded under the National Mission of Education through ICT (NME-ICT).
- There are more than 50 projects on e-content under NME-ICT which are developed in various subject disciplines (science, arts, engineering, social science, etc.) through various Indian institutes, universities, and colleges.
- Types of Contents: e-Tutorials/videos: 66174; e-Texts: 44450; Others: 37827
- Content for Learners: Under Graduate: 46515; Post Graduate: 20487; Others: 4753
- http://vidyamitra.inflibnet.ac.in

content@inflibnet.ac.in | +91 79 23268286

ePathshala पाठशाला
A Gateway to all Post Graduate Courses

An MoE Project
National Mission on Education through ICT (NME-ICT)

HOME | STUDENT CORNER | QUIZ



About e-PG Pathshala

e-PG Pathshala is an initiative of the MHRD under its National Mission on Education through ICT (NME-ICT) being executed by the UGC.

Read More

e-Adhyayan (e-Books)

e-Adhyayan is a platform to provide 700+ e-Books for the Post-Graduate Courses. All the e-Books are derived from e-PG Pathshala courses. It also facilitates play-list of video content.

READ MORE »

UGC MOOCs (Online Courses)

UGC-MOOCs is one of vertical to produce course on Post Graduate

ABOUT

e-PG Pathshala

e-PG Pathshala is an initiative of the MHRD under its National Mission on Education

Uploaded Course / Subjects (22000+ Modules[e-text/Video])

- Adult Education (190)
- Architecture (164)
- Biophysics (450)
- Buddhist Studies (67)
- Chinese (26)
- Computer Science (633)
- Economics (567)
- English (560)
- Food Technology (329)
- Geology (136)
- Hotel & Tourism Management (639)
- Indian Culture (524)
- Jyotish- ganit (560)
- Linguistics (493)
- Material Science (465)
- Performing Arts(Dance/Drama/Theatre) (560)
- Physical Education, Sports and Health Education (37)
- Population Studies (383)
- Risk / Disaster Management (21)
- Sanskrit (M.A) (640)
- Sociology (526)
- Urdu (312)
- Zoology (184)
- Analytical Chemistry/Instrumentation (222)
- Biochemistry (261)
- Biotechnology (261)
- Business Economics (457)
- Commerce (469)
- Criminology (482)
- Education (106)
- Environmental Sciences (530)
- Forensic Science (560)
- Hindi (592)
- Human Resource Management (599)
- Information Technology (318)
- Law (462)
- M Plannning (45)
- Mathematics (567)
- Pharmaceutical Science (215)
- Physics (343)
- Psychology (599)
- Russian Studies (436)
- Social Medicine and Community Health (111)
- Spanish (560)
- Visual Arts (487)
- Anthropology (559)
- Bioinformatics (1)
- Botany (176)
- Chemistry (565)
- Comparative Study of Religions (77)
- Earth Sciences (49)
- Electronic Science (117)
- Food and Nutrition (602)
- Geography (337)
- Home Science (640)
- Human Rights and Duties (364)
- Japanese (458)
- Library and Information Science (395)
- Management (599)
- Media and communication studies (383)
- Philosophy (333)
- Political Science (222)
- Public Administration (102)
- Sanskrit (Acharya in Vyakrana) (534)
- Social Work Education (487)
- Statistics (595)
- Women Studies/Gender Studies (431)

20000+ e-Text

19000+ Video

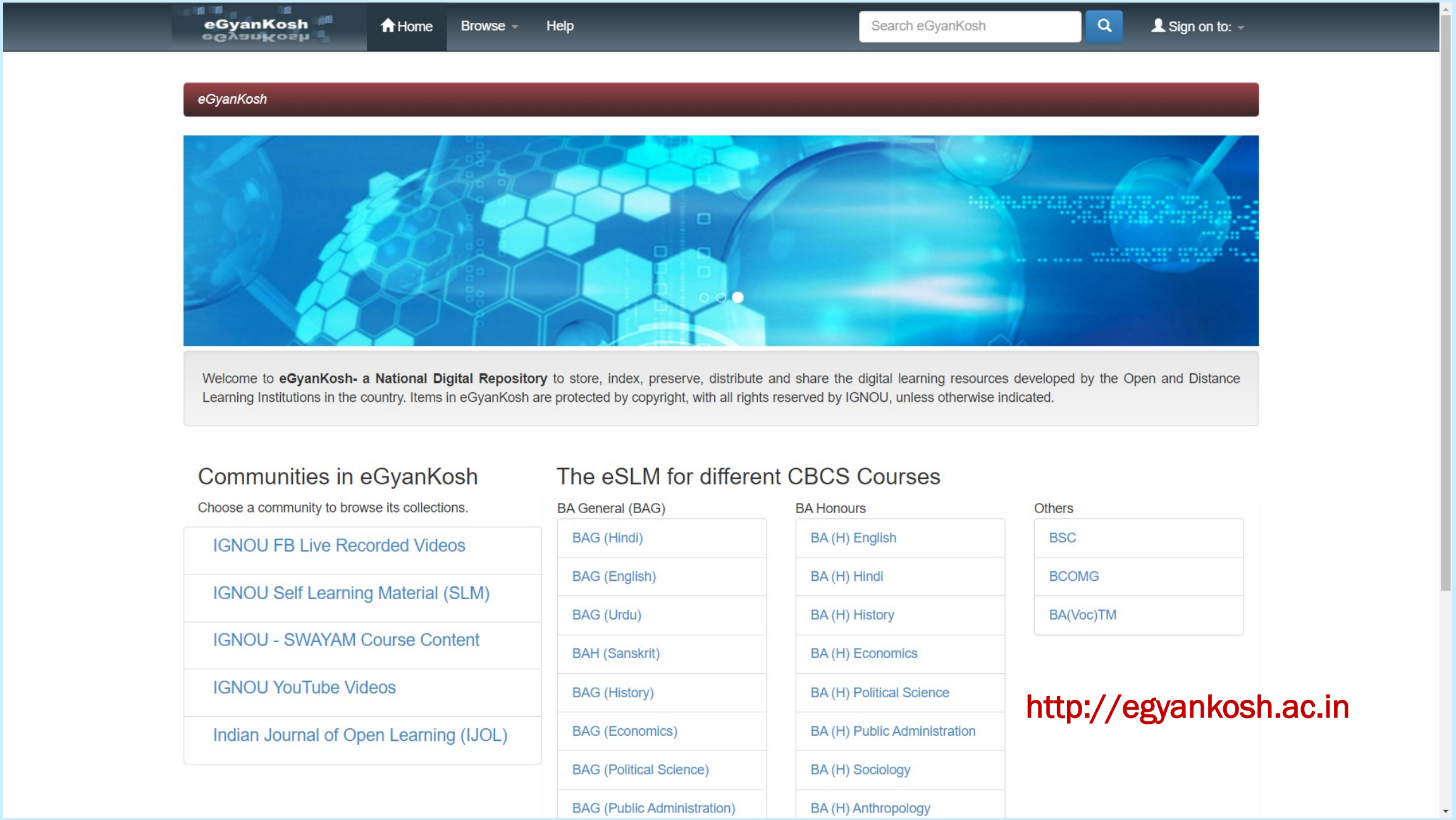
3200+ Experts

30000+ Quiz

70 / 723 Subjects / Papers

Salient Features of e-PG Pathshala

- Developed by the INFLIBNET Centre, "Vidya-Mitra: Integrated e-Content Portal" is a web-based portal e-PG Pathshala is an initiative of the MHRD under its National Mission on Education through ICT (NME-ICT) being executed by the UGC. The content and its quality being the key component of education system, high quality, curriculum-based, interactive e-content in 70 subjects across all disciplines of social sciences, arts, fine arts, humanities, and natural & mathematical sciences.
- Types of Contents: e-Texts: 20000+; Videos: 19000+; Quizzes: 30000+; Experts: 3200+; Subjects: 70; Papers: 723.
- https://epgp.inflibnet.ac.in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Welcome to eGyanKosh- a National Digital Repository to store, index, preserve, distribute and share the digital learning resources developed by the Open and Distance Learning Institutions in the country. Items in eGyanKosh are protected by copyright, with all rights reserved by IGNOU, unless otherwise indicated.
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IGNOU Self Learning Material (SLM)
IGNOU - SWAYAM Course Content
IGNOU YouTube Videos
Indian Journal of Open Learning (IJOL)
The eSLM for different CBCS Courses
BA General (BAG)
BAG (Hindi)
BAG (English)
BAG (Urdu)
BAH (Sanskrit)
BAG (History)
BAG (Economics)
BAG (Political Science)
BAG (Public Administration)
BA Honours
BA (H) English
BA (H) Hindi
BA (H) History
BA (H) Economics
BA (H) Political Science
BA (H) Public Administration
BA (H) Sociology
BA (H) Anthropology
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BSC
BCOMG
BA(Voc)TM
http://egyankosh.ac.in

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77	Gender Sensitization: Experiences	english	Gender & development studies	-		
78	Civil Society	english	Sociology	-		

Ministry of Education
Government of India

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IIT Madras

helps create crash courses for rural learners on SWAYAM Prabha

9/17/2020, 5:54:06 PM

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Search

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National Council of Educational Research and Training

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https://epathshala.nic.in/#bootstrap-touch-slider

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Teachers

eTextbooks

teachers Access digital textbooks and eResources, participate in exhibitions, festivals, contests, workshops, etc.

Teaching Instructions

Access teaching instructions and source books

Learning Outcomes

Help children achieve expected learning outcomes

eResources

Access audios, videos, interactives, images, maps, question banks, etc.

Periodicals and Journals

Curricular Resources

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National Council of Educational Research and Training

ePathshala learning on the go

Students

eTextbooks

Access digital textbooks for all classes on this portal

Supplementry Books

Access graded learning materials on this portal

Events

Participate in exhibitions, contests, festivals, workshops, etc.

eResources

Access audios, videos, interactives, images, maps, question banks, etc.

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Parents

eTextbooks

Access digital textbooks for all classes

Curricular Resources

Access Policy Documents, Reports of Committees, NCFs, Syllabus and other resources to support children learning

Learning Outcomes

Help children achieve expected learning outcomes

eResources

Access audios, videos, interactives, images, maps, question banks, etc.

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MINISTRY OF HUMAN RESOURCE DEVELOPMENT
GOVERNMENT OF INDIA

Digital India
Power To Empower

NROER
National Repository Of Open Educational Resources

एन सी ई आर टी
NCERT

NATIONAL REPOSITORY OF OPEN EDUCATIONAL RESOURCES (NROER)

A Collection of e-Learning Resources of NCERT syllabus

ACCESS VIDEO TUTORIALS ON:

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- Biology
- Business Studies
- Geography
- Life Science
- Dance Forms
- Drawing
- Career Counselling
- Motivation
- ...and much more!

CLICK ON LINK

bit.ly/NROER_E-library for further information

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Ministry of Human Resource Development

#COVID19

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#COVID - 19 outbreak ?
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out to
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Growing
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of OER
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Dish TV #950
Sundirect #793
Kishore Manch
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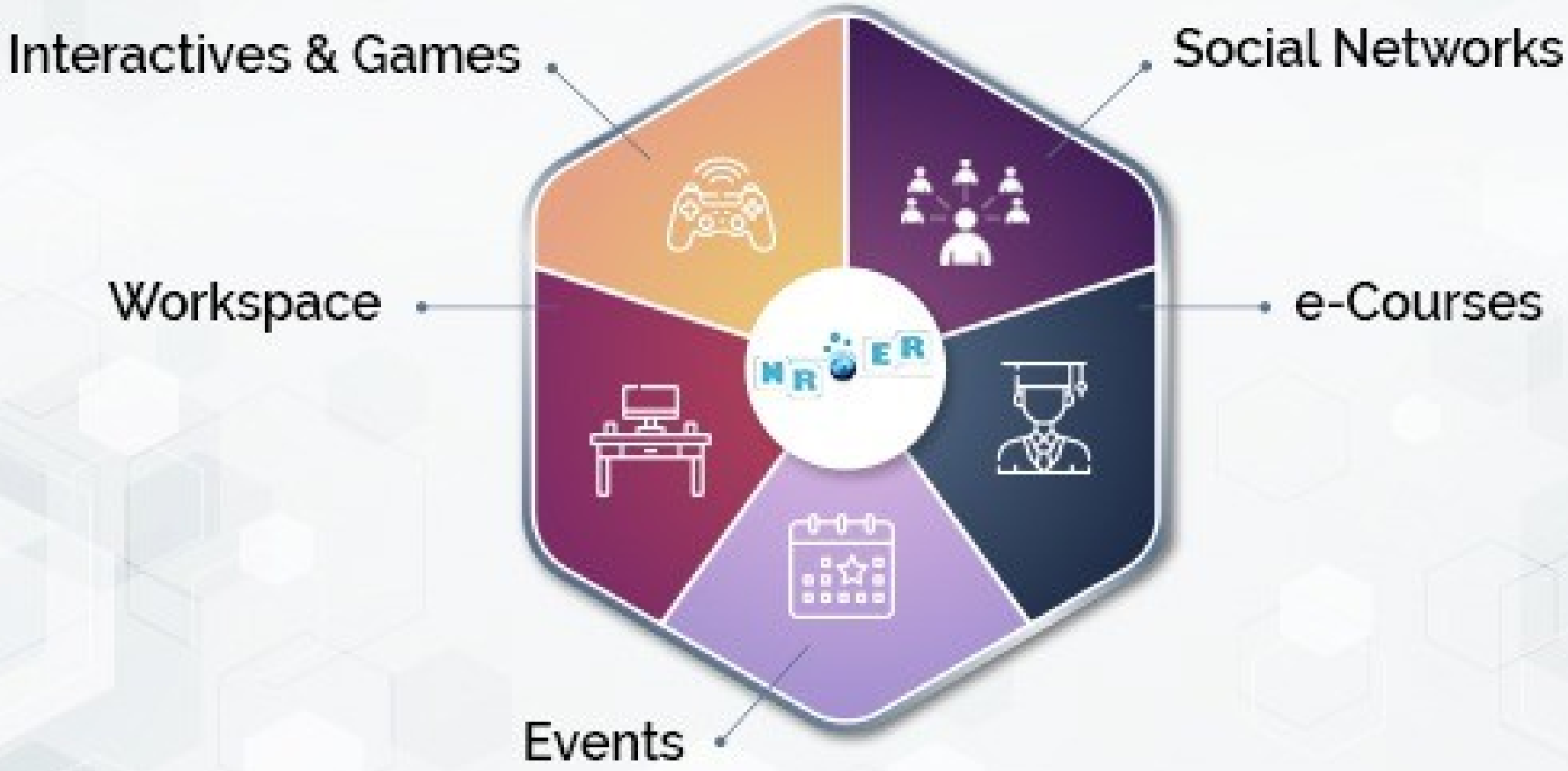
1800111265
1800112199
NCERT Official
Jio TV
Tatasky #756
Airtel #440
Videocon #477

MHRD | Government of India
Ministry of Human Resource Development

#COVID19

What's new on NROER?



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WANT TO EXPLORE MORE IN TEACHER EDUCATION?

Go through **NROER's** repository containing multiple **e-books, online courses, etc**

DON'T POSTPONE LEARNING DURING LOCKDOWN!

9/17/2020, 8:09:52 PM A- A A+ English (en) हिंदी (hi) Log In

NISHTHA ONLINE | INTEGRATED TEACHER TRAINING FOR CHANGE SAMAGRA SHIKSHA

https://itpd.ncert.gov.in

MHRD Govt. of India

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National Resource Group
120

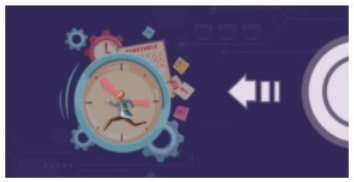
National Resource Groups (NRGs) will train Key Resource Persons (KRPs) & State Resource Persons- Leadership (SRPL) of the States/Union Territories. One NRG includes 15 national level resource persons.

State Resource Group
33,000

One State Resource Group (SRG) includes 05 KRPs & 01 SRPL from SCERTs, DIETs, CTEs, IASEs. SRGs will train the school teachers and school principals (functionaries at district, block and cluster level).

Teachers, Principals, BRCs and CRCs
42,00,000

All the elementary school level Teachers, Principals, Block Resource Centre Coordinators (BRCs) & Cluster Resource Centre Coordinators (SRCs) will be trained by SRGs.



Ministry of Education
Government of India

Educators, aspiring to improve your school leadership development skills?

TRY NISHTHA

Conclusion

- OER in NEP2020
- To be created a National Educational Technology Forum (NETF), a platform to facilitate exchange of ideas on technology usage to improve learning.
- Given importance in creation of educational e-Contents for the regular and lifelong learners.
- UGC (Open and Distance Learning Programmes and Online Programmes) Regulations, 2020
- At least 60 percent of Self Learning Materials shall be developed by the in-house faculty of the Higher Educational Institution and the remaining percent of the materials can be sourced from available resources such as other Higher Educational Institutions, Open Educational Resources (OER), and SWAYAM, duly approved by the statutory authorities of the Higher Educational Institution. ... (p. 71)
- Quadrant-II is e-Content; which shall contain: self-instructional materials (digital self-learning materials), e-books, illustrations, case studies, presentations, etc., and also contain web resources such as further references, related links, open source contents on internet, videos, case studies, books including e-books, research papers and journals, anecdotal information, historical development of the subject, articles, etc. ... (p. 93)
- UGC Regulations on Minimum Qualifications for Appointment of Teachers and Other Academic Staff in Universities and Colleges and Measures for the Maintenance of Standards in Higher Education, 2018
- Creation of ICT mediated Teaching Learning pedagogy and content and development of new and innovative courses and curricula: (d) E-Contents: Development of e-Content in 4 quadrants for a complete course/e-book; e-Content (developed in 4 quadrants) per module; Contribution to development of e-content module in complete course/paper/e-book (at least one quadrant); Editor of e-content for complete course/ paper/e-book. ... (p. 105)

Thank You For Your Kind Attention!

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