

Emerging perspectives in librarianship

Dr. H. Anil Kumar

Librarian, Indian Institute of Management Ahmedabad

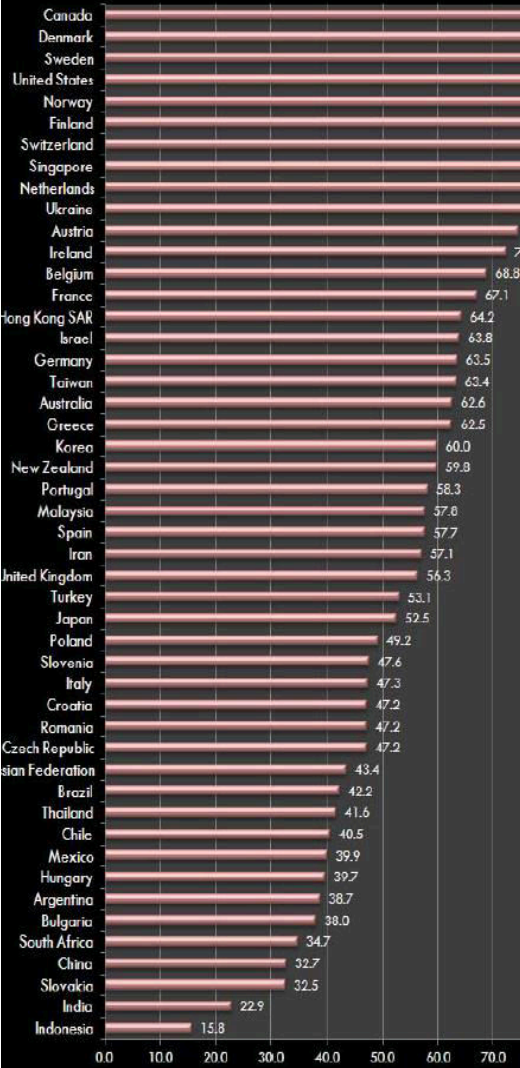
August 10, 2013

U21 Ranking of National Higher Education Systems

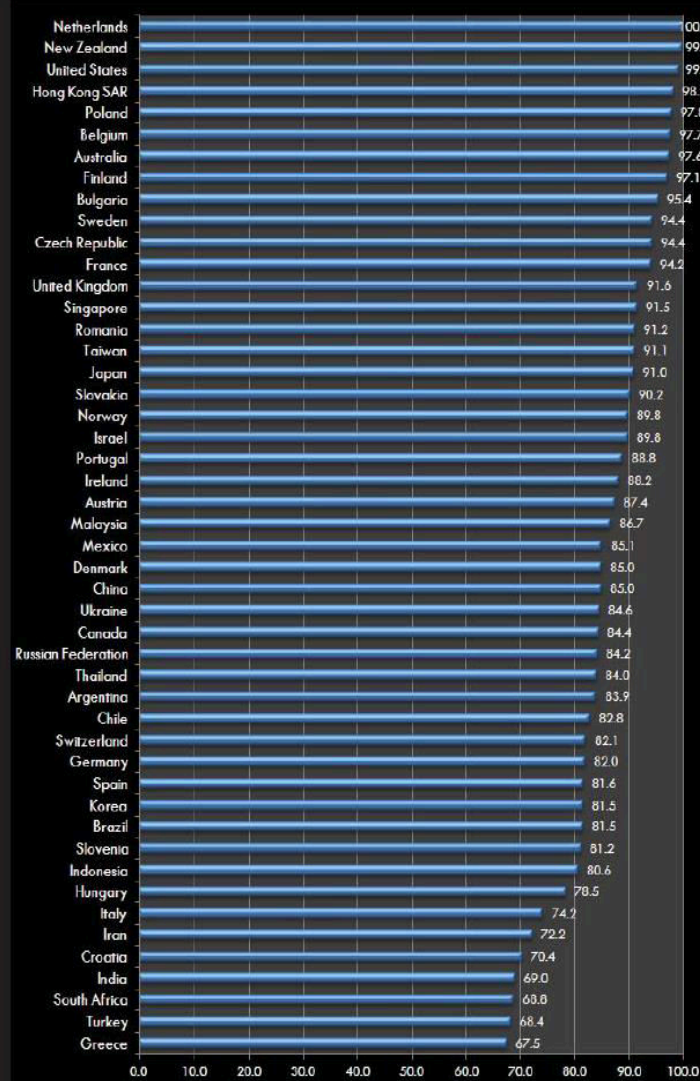
A project sponsored by *Universitas 21*

University of Melbourne, May 2012

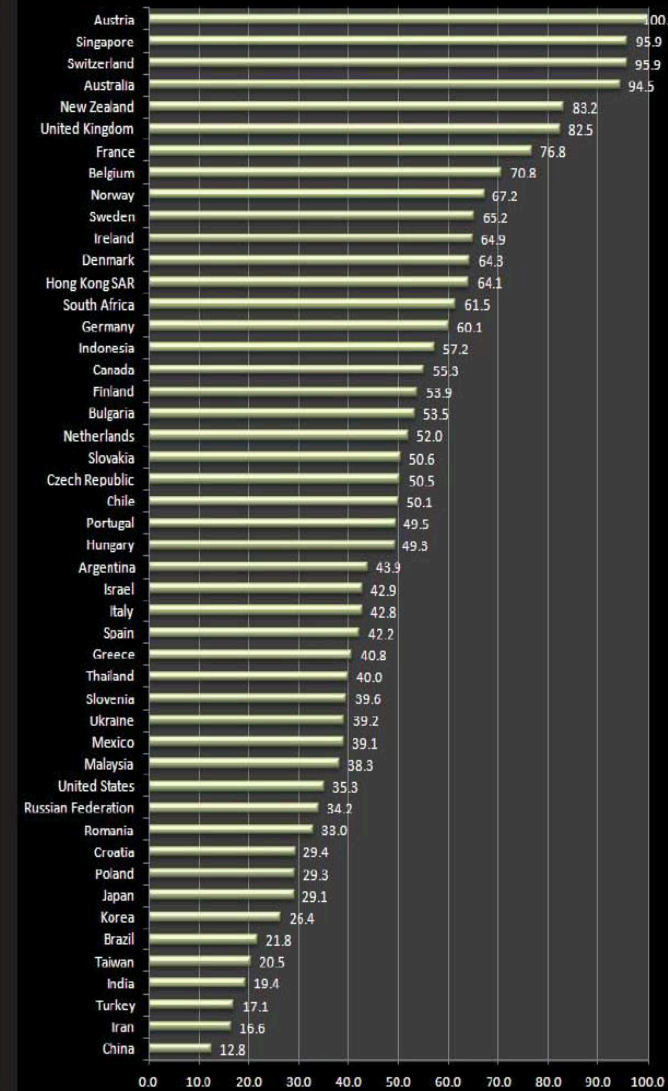
Resources



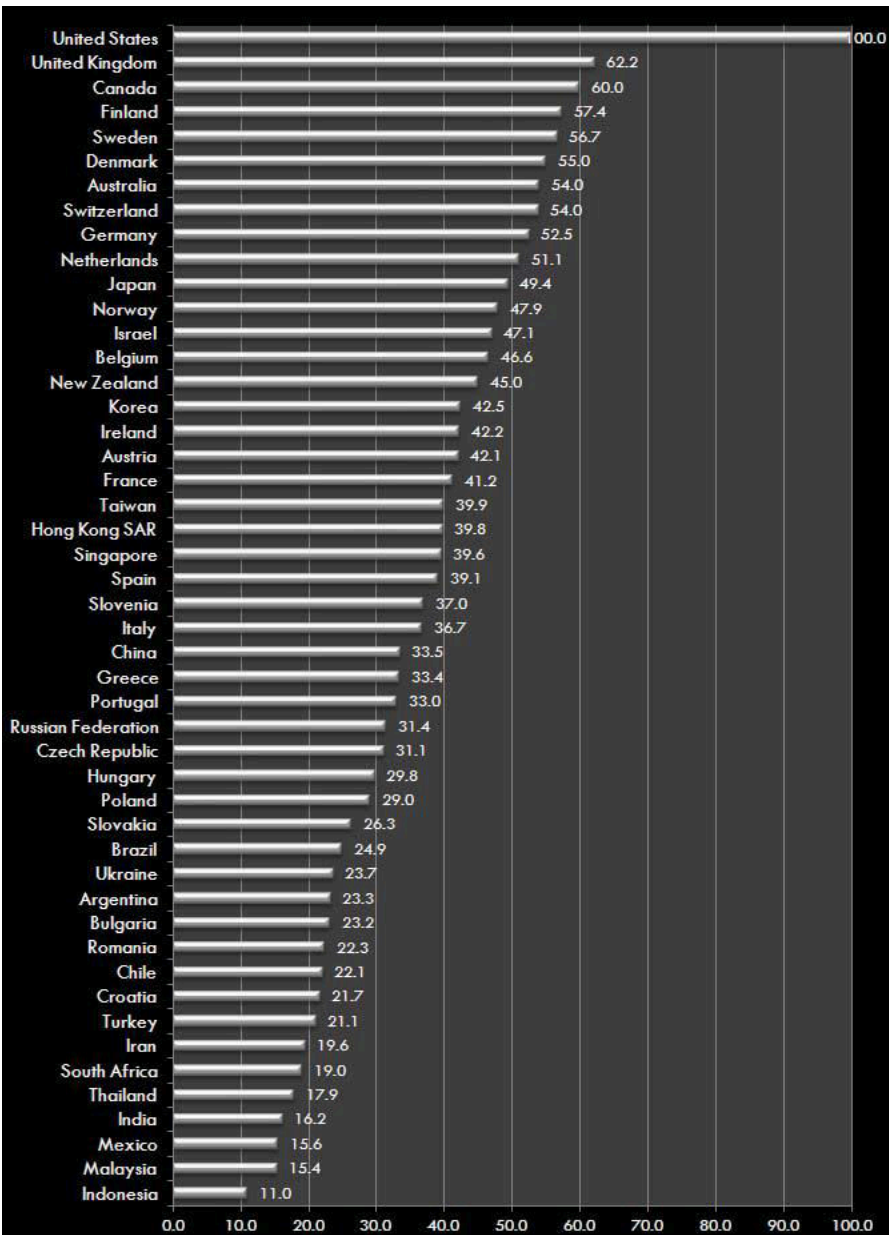
Environment



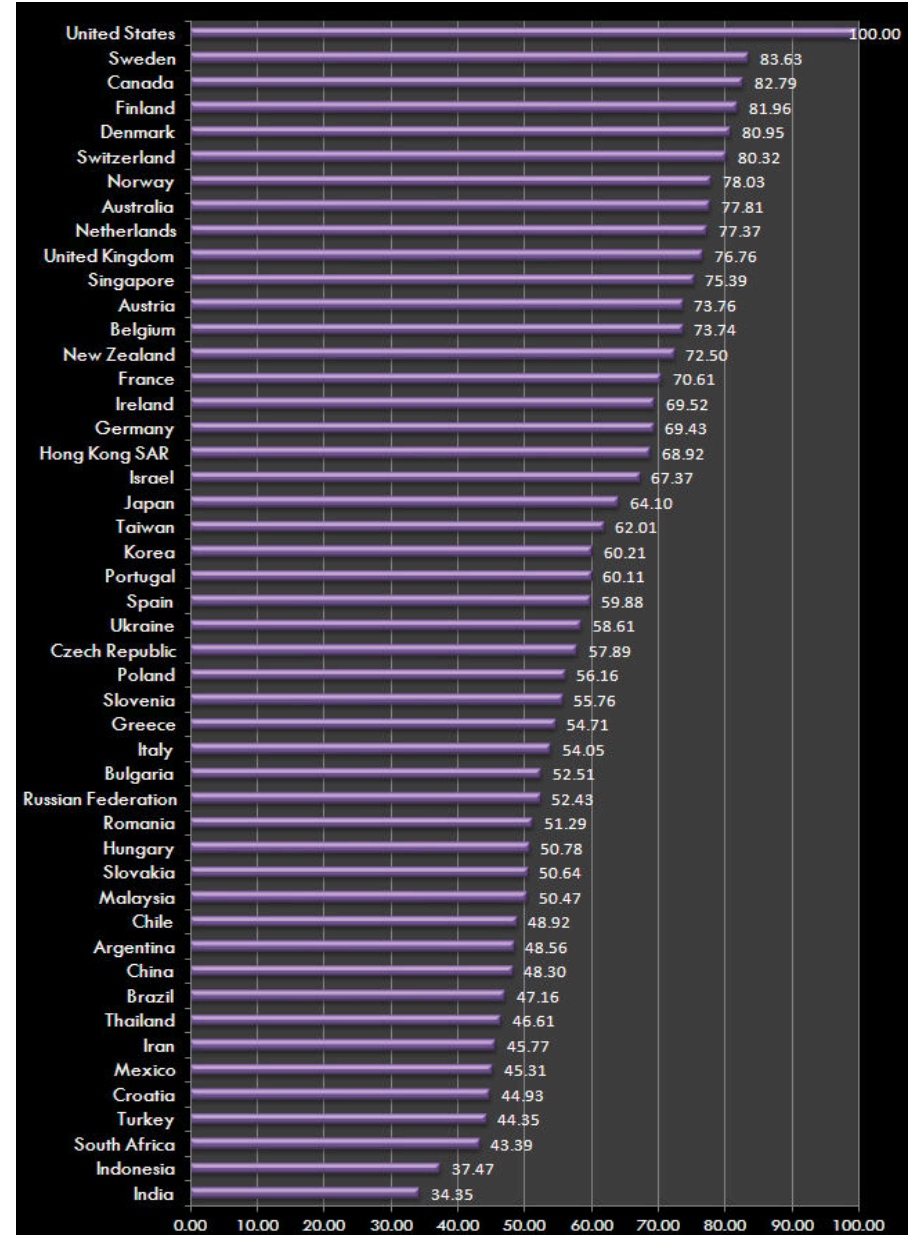
Connectivity



Output



Overall Ranking



Universities, ours and theirs

Krishna Kumar (*in The Hindu, August 9, 2012*)

- Recruitment of faculty
- Concept of teaching (periods)
- Concept of knowledge – research
- **Library**
- The *fourth critical difference* lies in the library. In the West, even in the most ordinary universities, the library forms the centre of life, both for teachers and students. Librarians enjoy a high status as their contribution to academic life cuts across academic disciplines.....

Emerging Landscape of Higher Education


- The abundance of resources and relationships made easily accessible via **the Internet** is increasingly challenging us to revisit our roles as educators.
- Both **formal and informal** learning experiences are becoming increasingly important as college graduates continue to face a highly competitive workforce.
- Education paradigms are shifting to include **online** learning, **hybrid** learning and **collaborative** models.
- Massively open online courses are proliferating.
- **Open** is a key trend in future education and publication, specifically in terms of open content, open educational resources, massively open online courses, and open access.

- **The abundance of resources and relationships**
 - **easily accessible via the Internet**
 - **revisit our roles as educators**

- **Institutions must consider the unique value that each adds to a world in which information is everywhere. In such a world, sense-making and the ability to assess the credibility of information are paramount.**
- **Universities have always been seen as the gold standard for educational credentialing, but emerging certification programs from other sources are eroding the value of that mission daily.**

Introducing Economist Education

e-learning for emerging markets



168 years of world-wide perspective

International insight and analysis combined with real-world, real-time lessons to help you thrive in a global economy.

What you'll find in our Emerging markets essentials programme:

- Self-paced, online, interactive courses
- Exclusive access to *The Economist* and EIU editors via monthly webcasts and online Q&A
- The EIU's Global Forecasting Service



Introducing Economist Education

Course directory

Emerging markets essentials programme

[ABOUT](#) ▼

A comprehensive programme that provides the essential knowledge, skills and tools to thrive in emerging markets.

Courses include:

[Entering and expanding in emerging markets](#)[ABOUT](#) ▶[Managing teams across borders](#)[ABOUT](#) ▶[Innovating in emerging markets](#)[ABOUT](#) ▶[Managing risk in emerging markets](#)[ABOUT](#) ▶

Emerging markets essentials programme (5 courses)



Duration: 20 Hrs.

[Learn more](#)

This suite of online educational courses provides international business managers a comprehensive base of knowledge, skills and tools to thrive in emerging markets.

Emerging markets essentials programme

Introducing Economist Education

Everything you didn't know you needed to know about emerging markets.



Prepare for the future.

The business world has changed dramatically over the past several decades, with much of the opportunity for growth now existing outside of the United States and other developed markets. The first five Economist Education courses provide people who work across borders a comprehensive base of knowledge, skills and tools to thrive in emerging markets.

Duration: 20 Hrs.

[Share](#)

[Register](#)

Entering and expanding in emerging markets

Learn to analyse the unique economic, political and cultural environments in emerging markets and to develop practical plans for tapping into new sources of overseas growth.

Duration: 4 Hrs.

Available now

[Learn more](#)

Managing teams across borders

Learn to effectively navigate the challenges of managing people and projects not just across cultures, but across national boundaries and time zones.

Duration: 4 Hrs.

Available now

[Learn more](#)

Innovating in emerging markets

Who will benefit from this programme?

Each of the five self-paced online courses are designed for business leaders and their workforces who are exploring new market opportunities, are seeking to adapt to overseas markets, and learning proven strategies to compete more effectively.

Featuring examples and executive interviews from:

- IBM
- Xerox
- Novartis
- Safaricom
- Standard Chartered Bank

Emerging markets essentials programme includes the following courses:

- [Entering and expanding in emerging markets](#)
- [Managing teams across borders](#)
- [Innovating in emerging markets](#)
- [Managing risk in emerging markets](#)
- [The competitive environment in emerging](#)

With knowledge comes benefits. Enrollment includes:

- Monthly webcasts
- Q&A with *The Economist* and EIU staff
- The EIU's Global Forecasting Service



ENTREPRENEURSHIP

The Glorious End of Higher Education's Monopoly on Credibility

By Michael Ellsberg | July 12, 2012 | 25 Comments

Like 1.3k

Tweet 684

+1 54

Share 68

The times they are a changin', and in this essay, I'd like to suggest they are changing in a way that has massive implications for education: sources of credibility—once the domain of expensive degrees—are becoming democratized, decentralized, and diversified.

In the past, there was pretty much one way to gain credibility: get some letters after your name, from as fancy an institution as possible.

Now, in 2012, I've seen dozens of young people who don't even have college degrees use the following tools as sources of credibility in the business world:

- A track record of having started one or two successful businesses, even if they were small.
- Industry-related blogs with well-written, lively, detailed posts, which receive many comments and tweets/likes/shares per post.
- An impressive About page on a well-designed personal



GETTY IMAGES

- **Michael Ellsberg**
- The author of *The Education of Millionaires: It's Not What You Think and It's Not Too Late*.
- He spent two years interviewing the nation's most successful people who didn't graduate college, and who instead majored in street smarts

Read more:

<http://business.time.com/2012/07/12/the-glorious-end-of-higher-educations-monopoly-on-credibility/#ixzz2D8AMYSQt>

Email

Print

+ Share



Comment

Follow

@TIMEBusiness

Academically Adrift: Limited Learning on College Campuses

by
Richard Arum and Josipa Roksa

- in short supply — is learning that is academic rather than consumerist or market-driven.
- a majority of students surveyed said “that they had not taken a single course . . . that required more than twenty pages of writing, and one third had not taken one that required even forty pages of reading per week”

Learning and education

- **Formal methods**
 - Classroom training
 - Laboratory training
 - On the job or apprenticeship
- **Non-formal methods**
 - Self-study and Reading
 - Watching, seeing and trying
- **Sources**
 - Institutes / schools / industries / employers
 - Libraries and laboratories
 - Internet

Why go beyond formal methods?

- **The 95 Percent Solution: *School is not where most Americans learn most of their science* by John H. Falk and Lynn D. Dierking**
- Recent findings challenge the longstanding belief that the place for science **knowledge acquisition is the classroom.**
- International comparisons of trends in science knowledge over lifetimes suggests that much if not **most science knowledge is acquired outside of school.**

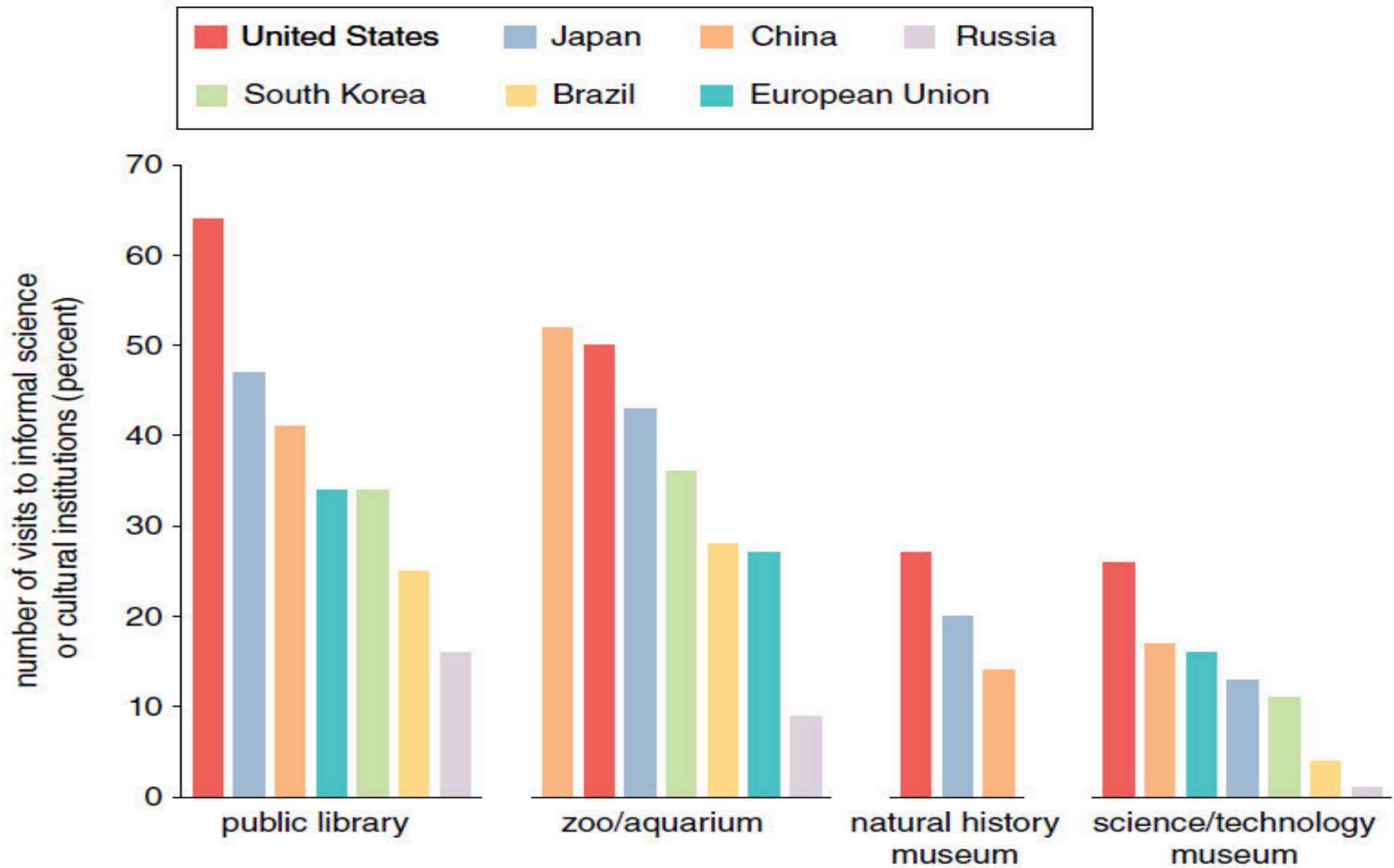


Figure 4. The U.S. public has a lush endowment of free-choice opportunities to learn science, which it uses extensively. The relative patronage of science-oriented institutions shown above may explain why the disappointing gap in science proficiency of U.S. youngsters compared to their most advanced peers worldwide disappears as the youngsters become adults.

Hole in the wall

TED Ideas worth spreading

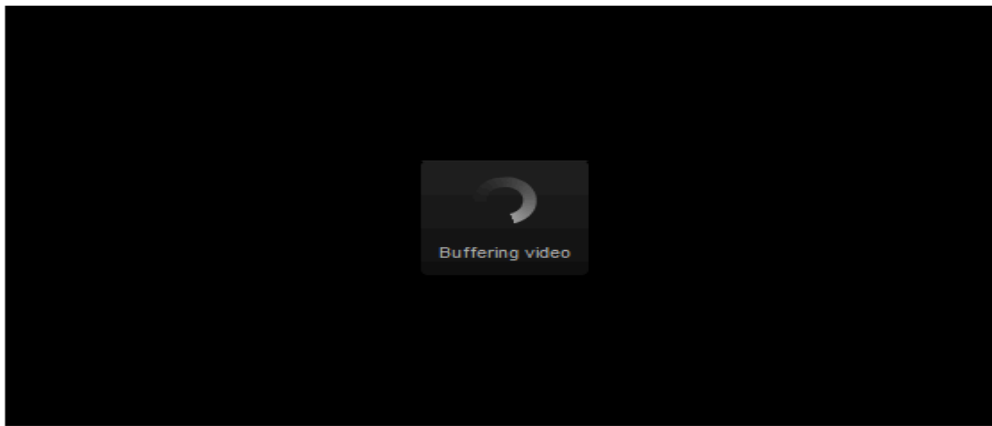
Talks	TED Conferences	TED Conversations	About TED
Speakers	TEDx Events	TED Community	TED Blog
Playlists NEW	TED Prize	TED-Ed NEW	TED Initiatives
Translations	TED Fellows	<input type="text" value="Search"/>	

TALKS | TED PARTNER SERIES

Sugata Mitra shows how kids teach themselves

FILMED FEB 2007 • POSTED AUG 2008 • LIFT 2007

Self-Organized Learning Environments (SOEs)



687,073 Views

Like 4.7k

Speaking at LIFT 2007, Sugata Mitra talks about his Hole in the Wall project. Young kids in this project figured out how to use a PC on their own -- and then taught other kids. He asks, what else can children teach themselves?

Sugata Mitra's "Hole in the Wall" experiments have shown that, in the absence of supervision or formal teaching, children can teach themselves and each other, if they're motivated by curiosity and peer interest. [Full bio »](#)

[Embed](#) [Download](#) [Favorite](#) [Rate](#) [Show transcript](#)

Share [More](#) [Tweet](#)

TED CONVERSATIONS

Got an idea, question, or debate inspired by this talk? [Start a TED Conversation.](#)



COMMENT ON THIS TALK

125 total comments

[Sign in to add comments](#) or [Join \(It's free and fast!\)](#)

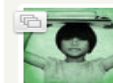
Sort By:

See how Goldman Sachs is helping Human Genome Sciences reach new milestones.

[▶ WATCH THE SHORT FILM](#)

RELATED PLAYLISTS **NEW** [View more »](#)

Enjoyed this talk? Watch this playlist, which is full of fascinating ideas on similar topics.



Re-imagining school
Curated by TED

WHAT TO WATCH NEXT



Ken Robinson says schools kill creativity
19:24 Posted: Jun 2006
Views 13,797,393 | Comments 2760

Technology Advantages

- Learn at your own pace and interest
- Supplement learning in the classroom
- Less dependency on formal support
- Explore new ways of learning
- Variety and wide range of topics

Management of Libraries

Focus

**Understand and service the needs of users
– faculty, students and researchers**

Resources

Users

Collection

Staff

Technology

Managing Users Needs

- **Faculty, researchers and students**
 - **Identifying and seeking continuously**
 - **Designing, delivering and managing services**
 - **Matching or facilitating access**
 - **Continuous Interaction**

Managing Collection

- **Collection**

- Identify and Seek
- Capture, Acquire and Access
- Retrieve and Communicate
- Manage and Monitor

FOCUS ON USER NEEDS

Collection

- **Traditional Resources**
 - Books
 - Periodicals
 - Annual reports
 - Newspapers
- **Digital formats**
 - CDs, DVDs, Blu ray disks
 - Databases
 - Online resources
- **Institutional knowledge**
 - Working papers
 - Thesis
 - Conference proceedings
 - Conference / seminar speeches, talks, etc

NMC horizon Report 2012

New modes of scholarship are presenting significant challenges for libraries and university collections, how scholarship is documented, and the business models to support these activities.

While the university library has traditionally housed collections of scholarly resources, **social networks and new publishing paradigms, such as open content, are challenging the library's role as curator.** Students and educators are increasingly able to access important, historic research in web browsers on devices of their choosing. As such, libraries are under tremendous pressure to evolve new ways of supporting and curating scholarship.

Looking Beyond Traditional Libraries

- Integration with curriculum and pedagogy
- Proactive in nature – topical displays, recommended readings, public lists, etc
- Look at the future needs and offer services
- Going beyond books – scholarly information, innovative services, etc
- A balance of best sellers, text books and must have books
- Facilitate a “good library experience” – user focus

Libraries: Gateways to Managing Internal sources

- Student Projects
- Syllabus and course design
- Technical Notes
- Course Materials
- Student made Tools/Materials / Models
- News Paper Clippings (Jobs/Courses)
- Question papers

Libraries: Gateways to External sources

- **Commercial**
 - **Books**
 - **Videos / CDs**
 - **Online resources**
- **Open Access**
 - **Books**
 - **Journals**
 - **Educational Videos**
 - **Educational courseware**

Managing Staff

- Understand their academic work
- Identify and Seek
- Recruit and train
- Facilitate, Manage and Understand
- Interact

VALUE TO THE USER

Managing Technology

- **Library automation packages: Proprietary to OSS**
- **Storage: Devices to Cloud**
- **Identification: Barcode, Tattle-tape, RFID, Biometric, etc**
- **Information capture: Key board, Scanner, Digital Cameras, Mobiles**
- **Network: Client-server, P2P, Internet**
- **Databases: Books, articles, reports, aggregators /publishers, IRs**

Technologies in Libraries

- **Information retrieval**
 - Simple OPAC to Federated searches to Discovery
 - Seamless integration of various sources/formats
 - Remote login / VPN
- **User need not worry where the information is located**
- **Online Usage statistics**
- **User customized displays**
- **User Identification is simpler and secure**

The *NMC Horizon Reports: 2012 and 2013*

2012

Near-term Horizon (within 12 months)

Mobile apps and Tablets

Mid-term Horizon (2-3 years)

Game-based learning and Learning analytics

Far-term Horizon (4-5 years)

Gesture-based computing

Internet of Things

2013

Near-term Horizon (within 12 months)

Massively Open Online Courses

Tablet Computing

Mid-term Horizon (2-3 years)

Big Data and Learning Analytics

Game Based Learning

Far-term Horizon (4-5 years)

3D Printing

Wearable Technology

Key Issues and opportunities

- ❖ **Staffing**
 - ❖ **Research Assistance, Database mining, IL, etc**
 - ❖ **Resource / product understanding**
 - ❖ **Professional managers**
- ❖ **Information Literacy**
- ❖ **Archiving Institutional Knowledge - Institutional Repositories**
- ❖ **Lib 2.0; Long Tail**
- ❖ **Open Access; Legal Issues**
- ❖ **Space – digital and physical - Reading Space**

Key Issues and opportunities

- ❖ **Outsourcing**
 - ❖ **IT: ILS, Hardware, Software, SaaS to PaaS**

 - ❖ **Manpower**
 - ❖ **Routine jobs**
 - ❖ **IT staff**

- ❖ **OSS, Remote login and Discovery services, RFID, Ebooks, Ebook readers, etc**

- ❖ **Online purchase of books**

- ❖ **Legal hosting of resources like videos**

- ❖ **Classroom use of library materials: videos, cases, etc**

- ❖ **Photocopying**

www.irro.org.in



INDIAN REPROGRAPHIC
RIGHTS ORGANISATION

Protecting Creativity

[Home](#) [About](#) [License](#) [Membership](#) [About Copyrights](#) [News](#) [Contact Us](#)

Welcome to IRRO!

IRRO licences enable you to copy and share information efficiently across your organisation while minimising the risk of copyright infringement. We support publishers, authors, artists and visual creators and international rightsholders protect their creative content.



Benefits of Licenses

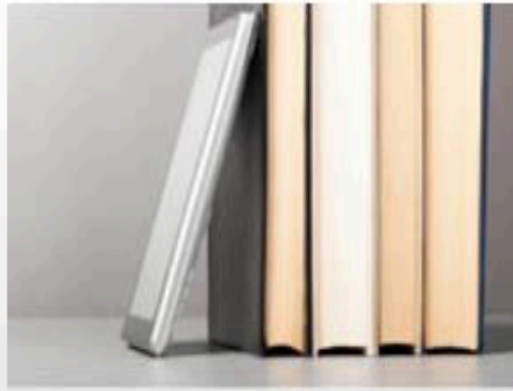
- Allows the copying of content from Indian Publications as well as those from other countries.
- Reduces the risk and the potential cost of copyright infringement.
- Offers the only way to get blanket cover so licensees don't have to seek permission of copyright owners individually.
- Provides convenience and certainty of a single transaction with one annual fee.
- Distribute the photocopy in the secured Network of your organization.
- Scan material and form Digital Copies.
- Make available the Digital Copies in Secured Network of your organization.
- Make photocopies of a photocopy.
- Take topics from books for reference and distribute it in the organization.

Rightholders



IRRO is a society formed under the Copyright Act, 1957 for issue or grant Licences, in respect of any Literary Work in which copyright subsists, for reproduction (with Limitations), on behalf of Rightholders i.e. Owner of Copyright of any Literary Work i.e. Authors, Publishers, etc.

License for Reproduction



Any form of Reproduction, which includes Photocopying, is infringement of Copyright under the Copyright Act, 1957. IRRO's Licenses allow Licensee to evade infringement of copyright with certain Limitations. For detail you can see Benefit of License and Limitations of IRRO's License.

License is mandatory...



IRRO's License is mandatory for All Government as well as Private institutions/ organizations, Companies, Educational Institutions, Libraries, Photocopy Shops and others who do not come under fair uses of the Copyright Act, 1957.

Library Value in the Developing World

<http://www.sagepub.co.uk/librarians/dw>

For developing country librarians

- Going beyond content provision and availability to address usage and awareness of available resources
- Engaging with faculty to find new ways of delivering support, training and advice
- Creating campus advocates by cultivating relationships with those willing to support the library
- Ensuring the library is up to date with the digital environment and tools
- Endeavouring to obtain more developing country voices in international debates on availability, access and use of research
- Promoting advocacy of the library through strong relationships with senior managers, participation in joint research projects, and getting a voice for the library 'at the top table', to ensure the library's concerns and needs are echoed within university strategy documents
- Measuring and demonstrating the value of the library's collection and services
- Using publisher support to create awareness and usage of services and resources
- Utilizing the library website as a tool to engage and provide information to faculty

For developing country universities

- Investing in libraries to ensure the sustainability of research and learning
- Investing in the professional development of librarians to ensure that the university makes the greatest use of the potential offered by information and technology
- Encouraging faculty doing research to make better use of the resources and technologies available to them through the library
- Raising the status and recognition of librarians and the value they add to the work of academic colleagues and campus administrators

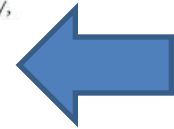
For publishers

- Understanding the needs and specifics of developing country libraries and their work
- Adapting online resource sites to enable greater access in developing countries
- Undertaking further research into different marketing channels to create awareness and usage of accessible products
- Working with individual libraries to create bespoke materials to satisfy needs
- Creating a full marketing toolbox for librarians to market their resources and services

FROM TOM LEONARD, THE KENNETH AND DOROTHY HILL UNIVERSITY LIBRARIAN
Under a New Lens



This summer faculty members completed a year of close study—not in the Library, but of the Library. Representing fields with such different needs as art history, statistics, and soil science, they concluded that *“the centrality of the Library to the range of learning and research at Berkeley warrants a serious strategy of major reinvestment.”* The Commission on the Future of the UC Berkeley Library was charged by the Provost and by the Chair of the Academic Senate; its report is surely one of the most thoughtful pictures of Berkeley on the desk of new Chancellor Nicholas Dirks.



Research libraries everywhere can learn from the Commission because it listened to a far-reaching library community, including our Library Advisory Board, as well as

many experts from peer libraries and Silicon Valley. The report sums up what was learned and answers the question: What is to be done . . . at Berkeley now?

For those of us in the Library who worked with the Commission these many months, the philosophy of co-chairs Carla Hesse (History) and Jim Midgley (Social Welfare) seemed to be: Assume Nothing. We

Executive Summary

1. **The Library is central to the University's mission.** Nearly seven in 10 users say they rely on the Library a great deal or fair amount to help accomplish their academic, professional, and/or intellectual goals.
2. **User populations differ significantly** in how they use, rely on, and view UC Berkeley's Libraries. For the most part, there is no *single* campus community when it comes to libraries.
3. There is, however, **widespread agreement that high-quality library collections are essential** for users' research. This sentiment is evident across academic disciplines, whether the users are from Arts and Humanities, Science and Engineering or the Social Sciences.
4. **Maintaining high-quality collections is the number-one priority** among key user populations, including graduate students, faculty members, library staff, and undergraduates who rely heavily on the Library. These same user groups **oppose spending substantially less money on collections to maintain all current locations and existing services.**
5. **Undergraduates who rely less on the Library, however,** rate maintaining the current number of **locations and service points** as a higher priority.
6. **Librarians are highly valued for the important roles they play,** especially as "Selectors," "Cataloging and Archiving," "Reference," and "Instruction." Users from the Arts and Humanities are especially likely to ascribe importance to librarians.
7. **"Hub and Cluster" is the preferred service model** among undergraduates and grad students, **but faculty members are divided 50/50** between "Hub and Cluster" and "Full-Service Libraries" model. Library staff prefer the "Full-Service Libraries" model.
8. **Users largely accept the premise that** budget cuts and staffing reductions have had consequences all over campus, and that in the long run **a new library service model will benefit the campus.**
9. Many Library users **prefer self-sufficiency,** but most want **the option to receive personalized service** when needed.
10. **Accessing library resources and services digitally is popular,** with about one in four users preferring to *always* go the digital route.
11. **The call for at least five-day/24-hour access to library space is clearly evident,** with more than one in four undergraduates preferring to access the library in-person between midnight and 6:00 am Monday through Thursday.

Attitudes Toward Re-Envisioning The UC Berkeley Library

An Online Survey Of The UC Campus Community

Conducted By Hart Research Associates

July 2012

Statewide Strategic Plan

For the Future of Libraries in New Jersey

July 2013

Executive Summary

This strategic plan to guide the future of New Jersey's 2000+ public, school, academic and special libraries was developed through a process of public engagement by representatives of the library community and stakeholders during 2012-2013. The plan is a collaborative effort between the membership of LibraryLinkNJ (LLNJ), The New Jersey Library Cooperative and the New Jersey State Library (NJSL).

Our vision

We envision every library in New Jersey as a thriving, vibrant hub of its community. We envision the people of libraries—librarians,

staff, boards, customers and all library stakeholders—as happy, fulfilled and collaborating productively to realize our shared goals.

Our future role

In a world of growing complexity, uncertainty and change, libraries and librarians have much to offer the communities we serve. We see our roles as:

Libraries as the heart of our communities:

Libraries play an increasing role as a place for people to collaborate and exchange ideas and to gain access to information, knowledge, tools and methods. In a

partnership with our customers we will help build more robust, vibrant communities, incubate new businesses, develop new skills for 21st century work and life and be a safe haven in times of crisis.

Librarians as wise knowledge facilitators:

Librarians will increasingly help people make sense of and navigate a world that is ever more complex, rapidly changing and uncertain. We will become role models for how to bridge and leverage new knowledge spaces in a multiplicity of roles: trusted, responsive partners, guides and content curators and publishers, teachers, advocates and cross-boundary facilitators.

Open / Free resources

oercommons.org



[Register Now!](#) | [Log In](#) | [Help](#)

+ LEARNER OPTIONS

[Home](#) / [Browse All](#) / [My OER](#) / [Groups](#) / [Contribute](#)

Welcome to the Commons

The network that brings together 45,560 OER, tools for sharing curriculum with the world, and news and training on the brave new world of open education.

[LEARN ABOUT THE MOVEMENT](#)



[Use Advanced Search](#) | [Discover New Resources](#)

Browse by Topic

[Education](#) / [Arts](#) / [Humanities](#) / [Social Sciences](#) / [Natural Sciences](#) / [Applied Sciences & Technology](#) / [Mathematics & Statistics](#)



New on OER Commons



Social / Emotional Learning



Common Core



Primary Sources



Teachers as Makers



Flexible Learning



Game-based Learning

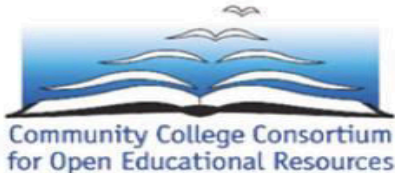


Getting Started

- ▶ What is OpenCourseWare?
- ▶ Become a Member
- ▶ See Current Members
- ▶ Visit OCW Websites
- ▶ Find Courses
- ▶ Get Involved
- ▶ Contact Us

Newsletter

[CLICK HERE TO SUBSCRIBE](#)



Events Calendar

March 2013						
S	M	T	W	T	F	S
					1	2
3	4	5	6	7	8	9
10	11	12	13	14	15	16
17	18	19	20	21	22	23
24	25	26	27	28	29	30
31						

OCWC GLOBAL 2013

Bali, Indonesia



Registration is Now Open

OCWC Global 2013, hosted by APTIKOM Indonesia, will be held in Bali, Indonesia May 8-10
[Read more ...](#)

The **OpenCourseWare Consortium** is a collaboration of higher education institutions and associated organizations from around the world creating a broad and deep body of open educational content using a shared model.

[JOIN NOW](#)

Announcements

[UC Irvine Announces OpenChem](#)

[School of Open Launches during Open Education Week](#)

[Open Education Week March 11-15](#)

[Feb 26 CCCOER Webinar: The Critical Role of Librarians in OER Adoption](#)

[Opportunity to Participate in OCWC Toolkit Working Groups during Open Education Week](#)

In the News

Thu 14 Mar 2013 // Open Education:
[Take Back The Curriculum](#)
[Information Week Education](#)

Wed 13 Mar 2013 // Outsourcing Public Higher Ed
[Inside Higher Ed](#)

Tue 12 Mar 2013 // 12 Open Educational Resources: From Khan to MIT
[Information Week Education](#)

Mon 11 Mar 2013 // Open Education Week Promotes Sharing Online Classes
[Newschief](#)

Fri 08 Mar 2013 // Second Annual Open Education Week Highlights Educational Opportunities Available to Everyone

Sponsors

THE WILLIAM AND FLORA
HEWLETT
FOUNDATION

Sustaining Members

- ▶ African Virtual University
- ▶ China Open Resources for Education
- ▶ Fundação Getulio Vargas - FGV Online
- ▶ Japan OCW Consortium
- ▶ Johns Hopkins Bloomberg School of Public Health
- ▶ Korea OCW Consortium
- ▶ Massachusetts Institute of Technology
- ▶ Netease Information Technology (Beijing) Co., Ltd.
- ▶ Open University Netherlands
- ▶ Taiwan OpenCourseWare Consortium

You are here: [Home](#) > [Get Started](#) > [Frequently asked questions on OpenLearn](#)

Frequently asked questions on OpenLearn

Do you have a question that you'd like to ask the OpenLearn team? The chances are that we may have already answered! Check out the frequently asked questions below.

Hide summary ▾

by: [The OpenLearn team \(Programme and web teams, The Open University\)](#)

Duration 15 mins
Introductory Level

Published on: Monday 29th October 2012
Posted under: [Get Started](#)

[Comments](#) |
 [Twitter](#) |
 [Share](#) |
 [Share](#)

[Print](#)

Using OpenLearn for the first time

What is OpenLearn?

OpenLearn gives you free access to learning materials from The Open University.

We launched OpenLearn back in October 2006 thanks to a grant from The William and Flora Hewlett Foundation. Our shared vision was free online education, open to anyone, anywhere in the world. OpenLearn is the result and we have since reached over 23 million people.

In the first two years, OpenLearn grew to include over 8000 study hours of learning materials from Open University courses. The website continues to grow with new course materials being published regularly in our OpenLearn 'Try' section.

And that's not all. In 2010 we merged OpenLearn with open2.net, the Open University website that has supported our BBC radio broadcasts since 1999. So now OpenLearn gives access to topical and interactive content, from expert blogs, to videos and podcasts. This 'open media' often links to our BBC television and radio programmes. As if that isn't enough, you can also find Open University channels on [YouTube](#) and [iTunesU](#) and you can follow us on Twitter ([@OpenUniversity](#)).

About this site ▾

OpenLearn: free learning from The Open University

- Explore with the OU's experts
- Try extracts from course materials
- Watch, listen and interact

[Sign In](#)

[Sign Up](#)

[Help](#)

Study with the OU ▾

Why not study with **The Open University?**

[Click HERE for courses](#)

Outside the UK?
[Visit our international prospectus](#)

Editor's choice ▾

Science, Maths & Technology

Editor's Choice

Science, Maths & Technology tag cloud

Most Popular



Shining a light on the elements

From the big bang to neon signs, the elements of the periodic table are all around us. Find out how they impact our bodies and the world around us.

[Launch now](#) >



Filter pages by:

- Activity
- Audio
- Video
- Free Course
- Course
- Community

[More filter options](#) <

Sort by:

- Date
- Title
- Rating
- Comments

[Apply](#)

[Reset](#)

Explore

Watch, listen, debate & discover with our experts



Try

Free extracts from OU course materials



Study

Change your life with a qualification



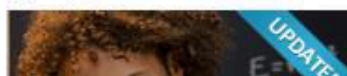
Mapping the world with data



UPDATE

Introductory Level
Duration 15 mins

Succeed with maths - Part 2



UPDATE

Introductory Level
Duration 50 hours

Algorithms, data structures and computability



UPDATE

Intermediate Level
Duration 300 hours

Try our free courses


OpenLearn is a great place to get an idea of what to expect from university study. With over 650 free courses on a range of subjects, we hope you'll find something that interests you.

Hide summary ▼

Duration 5 mins
Introductory Level

Published on: Monday 19th October 2009
Posted under: [Get Started](#)

 Comments

 Twitter

 Share

 Share

 Print

Don't know where to start?

Below is a selection of popular free courses from across all of our subject areas or you can [view our complete list](#). If you find you are enjoying your study experience on OpenLearn and want to keep a personal track of your progress, [sign up for a free OU account](#).

Subject area	Introductory courses	Intermediate courses	Advanced courses
Body & Mind	Introducing Social Work Practice	Factors that Influence Health	Infants' Understanding of their Social World
Education	Numbers, Units and Arithmetic	Working with young people in sport and exercise	The 'Why' and 'What' of Educational Leadership and Management
History & The Arts	Start Writing Fiction	Continuing Classical Latin	Voice-leading Analysis of Music: The Foreground
Languages	Beginners Chinese: Introducing Yourself	Intermediate Italian: La Famiglia	Learning a Second Language
Money & Management	The Importance of Interpersonal Skills	How to Frame a Business Case	Understanding Operations Management



FIND COURSES

ABOUT

BLOG

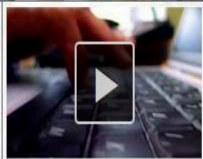
JOBS

LOG IN

SIGN UP



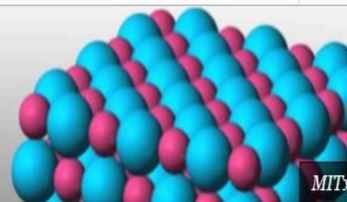
The Future of Online Education
for anyone, anywhere, anytime



EXPLORE FREE COURSES FROM edX UNIVERSITIES



3.091x Introduction to Solid State Chemistry →



MITx

CS50x Introduction to Computer Science I →



HarvardX

CS169.1x Software as a Service →



BerkeleyX

6.002x Circuits and Electronics →

PH207x Health in Numbers: Quantitative Methods in Clinical & Public Health Research →

CS188.1x Introduction to Artificial Intelligence →

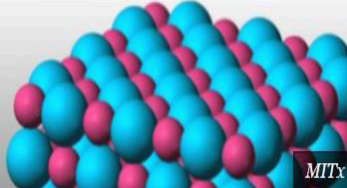


FIND COURSES

ABOUT BLOG JOBS LOG IN SIGN UP



3.091x Introduction to Solid State Chemistry →



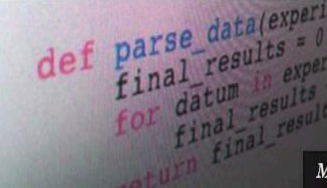
MITx

6.002x Circuits and Electronics →

6.002x teaches the fundamentals of circuit and electronic analysis.

MITx | Sep 05, 2012

6.00x Introduction to Computer Science and Programming →



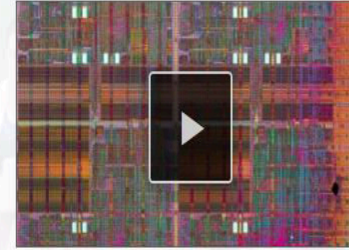
MITx

The Massachusetts Institute of Technology — a coeducational, privately endowed research university founded in 1861 — is dedicated to advancing knowledge and educating students in science, technology, and other areas of scholarship that will

include the first chemical synthesis of penicillin and vitamin A, the development of inertial guidance systems, modern technologies for artificial limbs, and the magnetic core memory that made possible the development of digital computers. 78 alumni, faculty, researchers and staff have won Nobel Prizes.

6.002x: Circuits and Electronics MITx

REGISTER FOR 6.002X



overview

ABOUT THIS COURSE

The course introduces engineering in the context of the lumped circuit abstraction. Topics covered include: resistive elements and networks; independent and dependent sources; switches and MOS transistors; digital abstraction; amplifiers; energy storage elements; dynamics of first- and second-order networks; design in the time and frequency domains; and analog and digital circuits and applications. Design and lab exercises are also significant components of the course.

The course is organized by weeks. To keep pace with the class, you are expected to complete all the work by the due dates indicated. Homeworks and labs must be completed by the Sunday of the week following the one in which they are posted. Weekly coursework includes interactive video sequences, readings from the textbook, homework, online laboratories, and optional tutorials. The course will also have a midterm exam and a final exam. Those who successfully earn enough points will receive an honor code certificate from MITx.

PREREQUISITES



Course Number **6.002x**

Classes Start **Sep 05, 2012**

Classes End **Dec 20, 2012**

Estimated Effort **12 hours/week**

Prerequisites **Yes**

PREREQUISITES

In order to succeed in this course, you must have taken an AP level physics course in electricity and magnetism. You must know basic calculus and linear algebra and have some background in differential equations. Since more advanced mathematics will not show up until the second half of the course, the first half of the course will include an optional differential equations component for those who need it.

COURSE STAFF



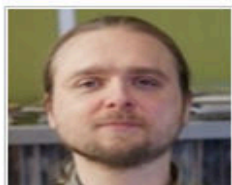
Anant Agarwal

President of edX and Professor of Electrical Engineering and Computer Science at MIT. His research focus is in parallel computer architectures and cloud software systems, and he is a founder of several successful startups, including Tiler, a company that produces scalable multicore processors. Prof. Agarwal won MIT's Smullin and Jamieson prizes for teaching and co-authored the course textbook "Foundations of Analog and Digital Electronic Circuits."



Gerald Sussman

Professor of Electrical Engineering at MIT. He is a well known educator in the computer science community, perhaps best known as the author of Structure and Interpretation of Computer Programs, which is universally acknowledged as one of the top ten textbooks in computer science, and as the creator of Scheme, a popular teaching language. His research spans a range of topics, from artificial intelligence, to physics and chaotic systems, to supercomputer design.



Piotr Mitros

Chief Scientist of edX and Research Scientist at MIT. His research focus is in finding ways to apply techniques from control systems to optimizing the learning process. He has worked as an analog designer at Texas Instruments, Talking Lights, and most recently, designed the analog front end for a novel medical imaging modality for Rhythmia Medical.



Chris Terman

Senior Lecturer in the Department of Electrical Engineering and Computer Science at MIT. He has taught computer science courses in the department for many years and won many

FREQUENTLY ASKED QUESTIONS

What do I have to buy in order to participate in the course?

Nothing. All edX courses are free. The lectures, assignments, labs, and textbook are all available online. If you would like to buy a print copy of the textbook, a discounted version is available to enrolled students when the course starts

What textbook do I need for the course?

Elsevier Publishing is generously providing a free online-only and a 40% discount on print and downloadable versions of *The Foundations of Analog and Digital Electronic Circuits* by Agarwal and Lang for enrolled students. Once you enroll in the course, you will find information about these discounts in the course info page.

Will the text of the lectures be available?

Yes, transcripts of the course will be made available.

Do I need to watch the lectures live?

No. You can watch the lectures at your leisure.

What are the prerequisites?

You should have a mathematical background of working with Differential Equations and a physics background through AP level Electricity and Magnetism.

I don't have the prerequisites, Can I still take the course?

We do not check students for prerequisites, so you are certainly allowed to try. However, 6.002x does depend on previous experience with electricity and magnetism, and differential equations. If you do not know those subjects before taking the class, you will have to learn them over the semester, which can be an extremely difficult task.

When does the course start?

The course opens at noon GMT on September 5th, 2012, and you can start the course any time after that.

If you have any questions about 6.002x that are not answered in this FAQ, please email mit-6002x@edx.org.



[Back to schools](#)

IIT Bombay, established in 1958, has emerged as a leading Institute in India. It is globally recognized for its quality education and strong research programs. Admissions are made through national competitive entrance examinations, considered to be the toughest in India. Its residential campus is home to over 8000 students, 500 faculty members, 14 departments, 6 centres, and 3 inter-disciplinary programs.

The research program in Education Technology attempts to evolve the most effective learning-teaching processes. The Centre for Distance Engineering Education Program (C-DEEP), handles much of the outreach activities. Several national mission projects are handled by the Institute. Training is offered to teachers on a large scale – up to 10,000 teachers at a time - using a unique blended mode. Other activities include: creation of web/video courses, spoken tutorials, educational animations, design and development of educational robots, educational content and applications on low-cost Aakash tablets, learning environments in the field of design, and FOSSEE.

IITBombayX will offer some of our popular and important courses to global participants.

COURSES (0) [all](#) | [new](#) | [current](#) | [past](#)

There are no courses currently available from this school, check back soon!

Take the world's best courses, online, for free.

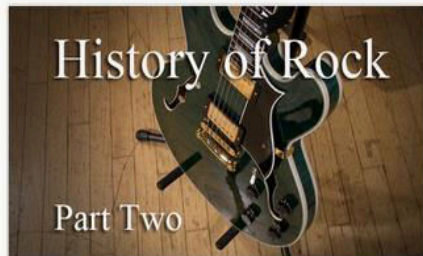


Join 4,052,797 Courserians.
 Learn from 395 courses, from our 83 partners.
[How it works »](#)

University of Copenhagen »

STARTING SOON (33)

[View courses starting soon »](#)



History of Rock, Part Two
 University of Rochester, Jul 8th



Introductory Human Physiology
 Duke University, Aug 5th



Foundations of Teaching for Learning 1: Introduction
 Commonwealth Education Trust, Aug 5th



Case-Based Introduction to Biostatistics



Introduction to Music Production
 Berklee College of Music, Jul 19th



Art and Inquiry: Museum Teaching Strategies For Your Classroom

Search by course name, category, university, or instructor

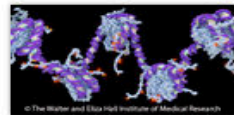
Sort by Starting soon

- Starting Soon 31
- Eligible For**
- Signature Track 68
- All Languages** 395
 - English 368
 - Spanish 11
 - French 9
 - Chinese 5
 - German 1
 - Italian 1
- All Categories** 395
 - Arts 15
 - Biology & Life Sciences 46
 - Business & Management 34
 - Chemistry 11
 - CS: Artificial Intelligence 23
 - CS: Software Engineering 26
 - CS: Systems & Security 21
 - CS: Theory 18
 - Economics & Finance 36
 - Education 55
 - Energy & Earth Sciences 14
 - Engineering 27
 - Food and Nutrition 13
 - Health & Society 45
 - Humanities 68
 - Information, Tech & Design 36
 - Law 8
 - Mathematics 26
 - Medicine 39
 - Music, Film, and Audio 21
 - Physical & Earth Sciences 6



Stanford University
Algorithms: Design and Analysis, Part 1
 with Tim Roughgarden

Jul 1st 2013
 6 weeks long



University of Melbourne
Epigenetic Control of Gene Expression
 with Marnie Blewitt

Jul 1st 2013
 6 weeks long
Signature Track



Brown University
Coding the Matrix: Linear Algebra through Computer Science Applications
 with Philip Klein

Jul 1st 2013
 8 weeks long



Stanford University
Antimicrobial Stewardship: Optimization of Antibiotic Practices
 with Stan Deresinski

July 2013



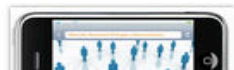
Ludwig-Maximilians-Universität München (LMU)
Competitive Strategy
 with Tobias Kretschmer

Jul 1st 2013
 6 weeks long



Stanford University
Practical tips to improve Asian American participation in cancer clinical trials
 with Kim F. Rhoads

July 2013



Princeton University
Networks Illustrated: Principles without Calculus

Jul 1st 2013
 6 weeks long

http://www.inc.com/audacious-companies

HOME | MAGAZINE | TOOLS | HOW-TO | VIDEOS | EVENTS | NEWSLETTERS | INC.ADVISOR | SUBSCRIBE

Search Inc.com

Inc.

ADVERTISEMENT

▶ START-UP ▶ RUNNING A BUSINESS ▶ FINANCE ▶ LEADERSHIP & MANAGING ▶ SALES & MARKETING ▶ TECHNOLOGY ▶ INNOVATION ▶ INC.5000

The 25 Most Audacious Companies

Meet the scrappiest, smartest, most disruptive companies of the year.

DESIGN



▲ SQUARE

The man who made the cash register obsolete

SECOND SIGHT MEDICAL PRODUCTS

Sight to the blind

MARKETING

LA COLOMBE TORREFACTION

Every cup an adventure tale

DOLLAR SHAVE CLUB

The video with the "f---ing great" ROI

72ANDSUNNY

How to be cooler than Apple



TECH

SILENT CIRCLE

The hackproof network

CHAMTECH TECHNOLOGIES

The spray-on Internet



SOCIAL IMPACT

CHANGE.ORG

Unleashing the audacity in others

COURSERA

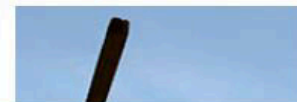
An elite education for anyone. Free.

UNCHARTED PLAY

Turning playtime into power

MATTERNET

A whole other way of using drones



CULTURE

TREK BICYCLE

Unhealthy habits are not an option



▲ MORNING STAR

400 leaders, 0 bosses

Insider ▾

Popular

Latest

READING NOW

Coursera Partners with Chegg to Give Students Free Textbooks



READING NOW

Facebook for BlackBerry 10 Updated With Design Tweaks and Photo



59 MINUTES AGO

Taiwan-based KKBox reveals plans to expand its music streaming



1 HOUR AGO

Early Backers Sell Shares In Online Eyewear Firm Mister Spex

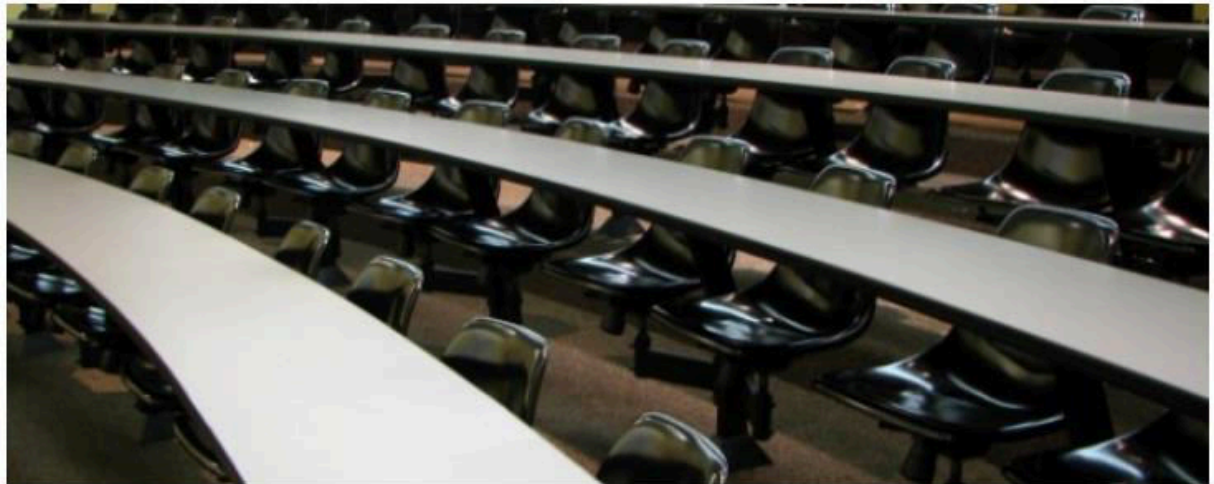


Coursera leaps another online learning hurdle, partners with Chegg and 5 publishers to give students free textbooks

SHARED: 883

Use ← → keys to navigate

NEXT >



Online learning startup [Coursera](#) on Wednesday announced a partnership with [Chegg](#), a student hub for various educational tools and materials, as well as five publishers to offer students free textbooks during their

Emil Protalinski

Contact Author

8 May 2013

THE BIG STORY

Search 

Home Latest News

HIGHER ED SYSTEMS IN 10 STATES TURN TO COURSERA

By JUSTIN POPE — May. 30 12:11 AM EDT

Home » Joe DiPietro » Higher ed systems in 10 states turn to Coursera

SHARE

 35
 Like
 15
 Tweet
 11
 Share
 1
 +1
 Share on Tumblr

The movement of "Massive Open Online Courses," which began with elite universities making their courses available online to the masses, is rapidly moving into the trenches of public higher education.

On Thursday, 10 large public university systems — including the giant state systems of New York, Tennessee, Colorado and the University of Houston — announce plans to incorporate MOOCs and platforms offered through for-profit Coursera into their own teaching.

The plans vary widely. Some institutions will focus on improving prep courses for students coming into the system, others on matriculated students both online and on-campus, and still others will be developing their own MOOCs to teach students at other institutions in their states. At least one system, Tennessee, plans a version of an experiment cropping up at schools around the country: having students take in-person and customized MOOC-like versions of the same course, and comparing results.

But overall, the announcement is the latest ramping up of higher education's MOOC experiment, which launched in earnest barely a year ago as a way to sample elite college courses. But it is now tangibly affecting the large public institutions that do much of the heavy lifting of American higher education. The latest batch of partners also includes the Universities of Georgia, Kentucky, Nebraska, New Mexico and West

LATEST NEWS

Myanmar Airways grounds MA60s after landing mishaps

Jun. 11 7:34 AM EDT

Russia faces security challenges at Sochi Olympics

Jun. 11 7:32 AM EDT



Mandela spends fourth day in hospital

Jun. 11 7:31 AM EDT



Dole CEO makes buyout bid; values co. at \$1.07B

Jun. 11 7:29 AM EDT

www.udacity.com

How it Works

Course Catalog

Sign In

Sign Up



Learn. Think. Do.

Invent your future through free interactive college classes. [How it works](#)



BEGINNER

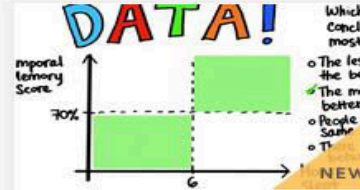
[View all](#)



Intro to Computer Science



College Algebra



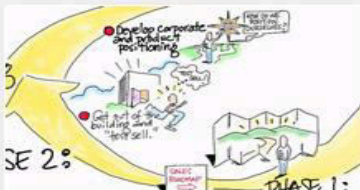
Statistics



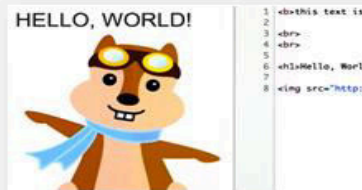
Introduction to Physics

INTERMEDIATE

[View all](#)



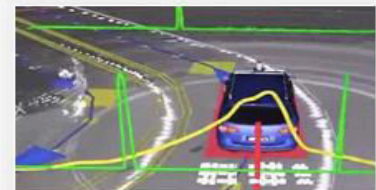
How to Build a Startup



Web Development



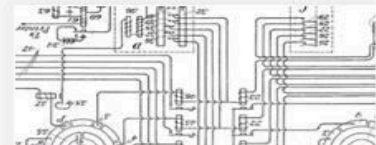
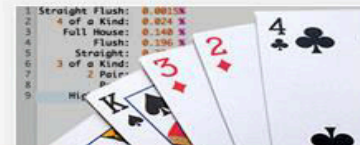
HTML5 Game Development



Intro to Artificial Intelligence

ADVANCED

[View all](#)





Courses ▾

About ▾

Donate ▾

Featured Sites ▾

Search



[Advanced Search](#)

[Home](#) » [About](#)

Donate Now >

About OCW



materials from

2150
courses

125
million visitors

» [more site statistics](#)

“The idea is simple: to publish all of our course materials online and make them widely available to everyone.”

Dick K.P. Yue, Professor, MIT School of Engineering

Unlocking Knowledge

MIT OpenCourseWare (OCW) is a web-based publication of virtually all MIT course content. OCW is open and available to the world and is a permanent MIT activity.

» [View a list of our most visited courses](#)

Empowering Minds

Through OCW, educators improve courses and curricula, making their schools more effective; students find additional resources to help them succeed; and independent learners enrich their lives and use the content to tackle some of our world's most difficult challenges, including sustainable development, climate change, and cancer eradication.

» [Read more about how our materials are making a difference](#)

[OUR HISTORY](#)

[PRESIDENT'S MESSAGE](#)

[DIRECTOR LETTER](#)

[OCW ADVISORY BOARDS](#)


[OCW TEAM](#)

- > **Get Started with OCW**
- > VIEW ALL 2100 COURSES
- > Most Visited Courses
- > OCW Scholar
- > Editor's Picks
- > Audio/Video Courses
- > Translated Courses
- > New Courses

- > **Find Courses**
- ▣ Architecture and Planning
- ▣ Engineering
- ▣ Health Sciences and Technology
- ▣ Humanities, Arts, and Social Sciences
- ▣ Management
- ▣ Science
- ▣ Other Programs
- ▣ Cross-Disciplinary Courses
- ▣ Special Collections
- > Supplemental Resources
- > View All Departments

- > **Highlights for High School**

- > **Other Resources**
- > Archived Courses
- > MIT Curriculum Guide



Unlocking Knowledge, Empowering Minds.

Free lecture notes, exams, and videos from MIT. No registration required.

> Learn more

"My life is in teaching. To have a chance to do that with a world audience is just wonderful."

Gilbert Strang
MIT Mathematics professor
United States

> Read more

FEATURED COURSE

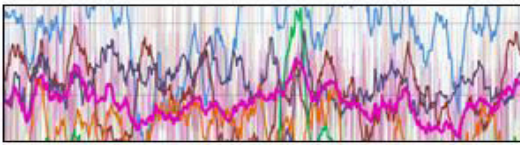


Image courtesy of [thisisbossi](#) on Flickr.

How to Process, Analyze and Visualize Data

This class provides an introduction to data cleaning, analysis and visualization and is an excellent resource for anyone interested in MIT's new [Bigdata@CSAIL](#) initiative.

> Previous features.

edX ENROLLMENT



edX **Free Online Interactive Courses**
Register here to learn online and earn certificates of mastery from MITx, HarvardX and BerkeleyX.

> [Find out more about this new online learning experience.](#)

> [View OCW courses related to the current edX offerings.](#)

SUPPORT OCW

Your contribution helps us share MIT's course materials with the world. [Learn more about giving to OCW.](#)

DONATE NOW

[Buy at Amazon](#) Your Amazon.com purchases can help support OCW. [Learn more.](#)




Ab Initio and OpenCourseWare:
Built on fundamentals




LOCKHEED MARTIN
We never forget who we're working for®

> [Learn more about Corporate support](#)

MIT NOTICE

PROGRAMS DESIGNED WITH YOUR BUSY SCHEDULE IN MIND



- > **Get Started with OCW**
- > VIEW ALL 2100 COURSES
- > Most Visited Courses
- > OCW Scholar
- > Editor's Picks
- > Audio/Video Courses
- > Translated Courses
- > New Courses

.....

> **Find Courses**

- ▣ Architecture and Planning
- ▣ Engineering
 - > Aeronautics and Astronautics
 - > Biological Engineering
 - > Chemical Engineering
 - > **Civil and Environmental Engineering**
 - > Electrical Engineering and Computer Science
 - > Engineering Systems Division
 - > Materials Science and Engineering
 - > Mechanical Engineering
 - > Nuclear Science and Engineering

- ▣ Health Sciences and Technology
- ▣ Humanities, Arts, and Social Sciences
- ▣ Management
- ▣ Science
- ▣ Other Programs
- ▣ Cross-Disciplinary Courses
- ▣ Special Collections
- > Supplemental Resources
- > View All Departments

.....

> **Highlights for High School**

.....

> **Other Resources**

Civil and Environmental Engineering



Steel structure, seen from below.

Civil and Environmental Engineering home

Department curriculum

Learn more about MIT Engineering


.....

Undergraduate Courses
Graduate Courses

[Notify me of course updates](#)

DONATE NOW

WHY I DONATE



Phil Educator USA

"OCW gives the gift of knowledge. Nothing is more generative and valuable."

[Read more](#)

Civil and environmental engineers are concerned with some of the most pressing problems of our world, including public infrastructure renewal, access to clean drinking water, environmental remediation and sustainable solutions to energy needs.

> [Read more about Civil and Environmental Engineering at MIT](#)

Available Courses

- Lecture notes
- Projects and examples
- Image Galleries
- Selected lecture notes
- Projects (no examples)
- Multimedia content
- Assignments and solutions
- Exams and solutions
- OCW Scholar
- Assignments (no solutions)
- Exams (no solutions)
- Study group
- Online textbooks

Undergraduate Courses

	Course #	Course Title	Term
	1.00	Introduction to Computers and Engineering Problem Solving	Spring 2005
	1.00	Introduction to Computers and Engineering Problem Solving	Fall 2005
	1.001	Introduction to Computers and Engineering Problem Solving	Fall 2005



5.301 ChemLab Boot Camp

a new video series on MIT OpenCourseWare

[Watch the trailer now](#)

- ☐ Cross-Disciplinary Courses
- ☐ Special Collections
- > Supplemental Resources
- > View All Departments

> **Highlights for High School**


> **Other Resources**

- > Archived Courses
- > MIT Curriculum Guide

Undergraduate Courses

	Course #	Course Title	Term
  	1.00	Introduction to Computers and Engineering Problem Solving	Spring 2005
   	1.00	Introduction to Computers and Engineering Problem Solving	Fall 2005
   	1.001	Introduction to Computers and Engineering Problem Solving	Fall 2005
  	1.010	Uncertainty in Engineering	Fall 2008
  	1.010	Computing and Data Analysis for Environmental Applications	Fall 2003
   	1.011	Project Evaluation	Spring 2011
	1.012	Introduction to Civil Engineering Design	Spring 2002
  	1.015J	Design of Electromechanical Robotic Systems	Fall 2009
  	1.017	Computing and Data Analysis for Environmental Applications	Fall 2003
   	1.018J	Ecology I: The Earth System	Fall 2009
 	1.020	Ecology II: Engineering for Sustainability	Spring 2008
 	1.021J	Introduction to Modeling and Simulation	Spring 2011
	1.032	Advanced Soil Mechanics	Fall 2004
  	1.033	Mechanics of Material Systems: An Energy Approach	Fall 2003
  	1.040	Project Management	Spring 2009
 	1.040	Project Management	Spring 2004
  	1.041J	Frameworks and Models in Engineering Systems / Engineering System Design	Spring 2007
  	1.044J	Fundamentals of Energy in Buildings	Fall 2010
 	1.050	Engineering Mechanics I	Fall 2007
	1.050	Solid Mechanics	Fall 2004
   	1.051	Structural Engineering Design	Fall 2003

MIT OpenCourseWare

 Watch the trailer now

About Us

- Consortium
- Conference
- Software
- Publicity
- People
- FAQ
- Join Us
- Contact Us

About Us

Connexions is a dynamic digital educational ecosystem consisting of an educational content repository and a content management system optimized for the delivery of educational content. Connexions is one of the most popular open education sites in the world. Its more than 17,000 learning objects or modules in its [repository](#) and over 1000 collections (textbooks, journal articles, etc.) are used by over 2 million people per month. Its content services the educational needs of learners of all ages, in nearly every discipline, from math and science to history and English to psychology and sociology. Connexions delivers content for free over the Internet for schools, educators, students, and parents to access 24/7/365. Materials are easily [downloadable](#) to almost any mobile device for use anywhere, anytime. Schools can also order low cost hard copy sets of the materials (textbooks).



Modularity

Information is often presented to us linearly, but the way we learn is most often by making connections between new concepts and things we already know. Connexions content is modular for easy remixing. This makes it easier and more cost effective to update and adapt content. [Modular content](#) varies in length at the author's discretion and typically consists of a single idea or topic. These modules or ideas are woven into collections. [Collections](#) can be textbooks, courses, journals, etc.

FEATURED CONTENT

OpenStax College Physics



This 1300 page introductory, algebra-based, two-semester college physics book is grounded with real-world examples, illustrations, and explanations to help students grasp key, fundamental physics concepts.

[College Physics](#) is the first of a planned 20 college textbooks to be released by [OpenStax College](#). This online, fully editable and customizable title includes learning objectives, conceptual questions, links to labs and simulations, and ample practice opportunities to solve traditional physics application problems.

OpenStax College Introduction to Sociology



[Introduction to Sociology](#) is intended for a one-semester introductory sociology course. Conceived of and developed by active sociology instructors, this up-to-date title is now available on Connexions. This online, fully editable and customizable title includes sociology theory and research, real-world applications, simplify and debate features, and learning objectives for each chapter.

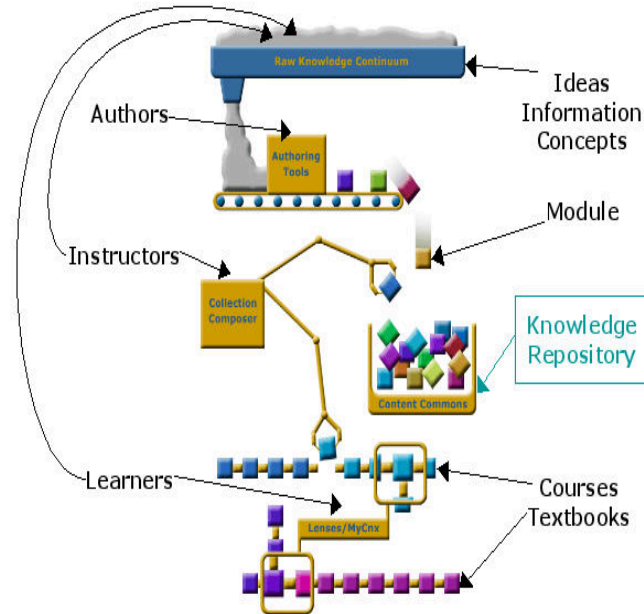
Introduction to Sociology was published by [OpenStax College](#), an initiative of Connexions and [Rice University](#). The project was generously funded by the Hewlett Foundation, Gates Foundation, 20 Million Minds Foundation and the Maxfield Foundation.

Collaborative Statistics



[Collaborative Statistics](#) was written by two faculty members at De Anza College in Cupertino, California. This book is intended for introductory statistics courses being taken by students at two- and four-year colleges who are majoring in fields other than math or engineering. The textbook was developed over several years and has been used in regular and honors-level classroom settings and in distance learning classes.

The book focuses on applications of statistical knowledge rather than the theory behind it. The focus is on thinking statistically, incorporating technology, working collaboratively, and writing thoughtfully.



support the frictionless remixing of the content repository. The knowledge in Connexions can be shared and built upon by all because it is reusable:

format. Connexions [XML data structures](#) make the content easily remixed within Connexions or distributed via any platform and remixed with other content. We have built in [accessibility](#) n be read by everyone.

authors to share their work - allowing others to use and reuse it legally - while still getting recognition and attribution for their efforts. The content in Connexions repository is all licensed under [most open licenses available](#), allowing Connexions content to be freely mixed with all other types of content. The Connexions software maintains attribution to the original author for you,

[Home](#)

not logged in

Welcome to TeachEngineering!

Browse

[Activities](#) | [Lessons](#) | [Curricular Units](#) | [Subject Areas](#) | [Educational Standards](#)

[Advanced Search >>](#)

[Editor's Pick](#) | [Most Popular](#) | [Recently Added](#)

editor's
pick



September 2012 Editor's Pick:
[Yogurt Cup Speakers](#)

Middle school students love music, but they may not know much about sound or the speakers that deliver music to their ears. Do they know that the object that makes a spe... [...more](#)

The *TeachEngineering* digital library provides teacher-tested, standards-based engineering content for K-12 teachers to use in science and math classrooms. Engineering lessons connect real-world experiences with curricular content already taught in K-12 classrooms. Mapped to educational content standards, *TeachEngineering's* comprehensive curricula are hands-on, inexpensive, and relevant to children's daily lives.



"...a massive collection of outstanding lesson plans... VERY cool stuff. The lessons are probably the most sophisticated and well-designed I've seen. And, it's all free."

— K-4 technology facilitator, Northfield, NJ

the
BUZZ

Lesson: What Makes Up A Color?

Contributed by: VU Bioengineering RET Program, School of Engineering, Vanderbilt University

Summary

As a part of the research and revise step of the Legacy Cycle, this lesson provides students with information they will need later on to be able to average pixels to simulate blurring in the peripheral plane of vision. Students learn why image color becomes important as we distort the outer boundaries of an image and have to interpolate pixels to fill in gaps created from our algorithm. Students learn what a digital image is, what pixels are, and learn to convert between RGB and hexadecimal values.



[copyright](#)

Engineering Connection

●○○ [Relating math concept to engineering](#) ⓘ

A digital image is a type of digital signal. The field of digital signal processing is one of the main sub-fields of electrical engineering and is applicable to many areas. Two such areas are medical imaging and communications (transmission of data). The hexadecimal number system is often used in the computer science and computer engineering fields as an alternative way to represent numbers.

Contents

- [1. Learning Objectives](#)
- [2. Introduction/Motivation](#)
- [3. Background](#)
- [4. Vocabulary](#)
- [5. Associated Activities](#)
- [6. Assessment](#)
- [7. References](#)



Grade Level: 12 (11-12)
Time Required: 30 minutes

Lesson #: 2 of 3
Lesson Dependency ⓘ: [The Grand Challenge: Simulating Human Vision, Peripheral Vision Lab](#)

Keywords: Challenge Question, Digital Image, Hexadecimal, Legacy Cycle, Peripheral Vision, Pixel, Raster, RGB, Robot
Reviews: [Read Reviews](#) | [Review/Comment](#)

Related Curriculum ⓘ

- subject areas [Computer Science](#)
curricular units [Robotics Peripheral Vision](#)
activities [RGB to Hex Conversion Activity](#)

Educational Standards ⓘ:

[International Technology and Engineering Educators Association: Technology](#) ▶

Does this curriculum meet my state's standards? Select state or (Inter)national Submit

dsc.discovery.com

Discovery SHOWS VIDEO GAMES SHOP ADVENTURE CARS & BIKES **GEAR & GADGETS** LIFE NEWS SEARCH

Chill Out on Friday Night
Meet the gold dredgers who risk everything deep under the frozen sea.
Video: [Hypothermia](#)
New Show: "Yukon Men" Battle Brutal Alaskan Winter

BERING SEA GOLD UNDER THE ICE
FRIDAYS 9P e/p

GEAR & GADGETS
Technology
Latest Cool Gadgets
Wireless Technology
Laptops & Tablets
Computers
Video Games
Cameras & Photography
Phones

940,502 FOLLOW US →

SHOVS

ONE CAR TOO FAR FULL EPISODES

BERING SEA GOLD FULL EPISODES

JUNKY FULL EPISODES

AUCTION KINGS FULL EPISODES

PROPERTY WARS FULL EPISODES

BERING SEA GOLD UNDER THE ICE

FEATURED RECENT POPULAR

MYTHBUSTERS
Adam Savage's Deadmau5 "Helmet"
The other day, I was driving with my boyfriend when I said (apparently) out of the blue, "How genius to put on a big cartoon-like mouse-head costume when you're DJing. Instead of, you know, just DJing ... without a [READ MORE](#)





With career clips featuring
Discovery Channel talent, lessons & more!



Subscriber Login

Passcode/New Users

Help

STORE



Administrators

Teachers

Parents

Students

About Discovery Education

Home > Free Teacher Resources

search free resources

GO

Free Teacher Resources



the Good Egg Project education station

Discovery Education Incredible American Egg Board

Win \$5,000 for Your School

Enter the *Be a Good Egg Contest* today!

Grand Prize: a **\$5,000** grant for a health or nutrition initiative for your school.

Five runner-up schools will win **\$1,000**. Encourage your colleagues and students to support your school and enter today!

▶ [Enter today](#)

Plans

Plans about ethics, anti-doping—Designed for school and high school

Discovery Education offers a broad range of **free classroom resources** that complement and extend learning beyond the bell.

Foster deeper engagement and opportunities for students to take charge of their own learning with high quality, engaging, relevant tools designed for today's busy teachers and parents. Explore our **programs and contests**, **interactive games**, **puzzles**, **lesson plans**, videos and more.

Grade K-5

Free resources in subject:

- ▶ Science
- ▶ English
- ▶ Social Studies
- ▶ Math

Grades 6-8

Free resources in subject:

- ▶ Science
- ▶ English
- ▶ Social Studies
- ▶ Math

Grades 9-12

Free resources in subject:

- ▶ Science
- ▶ English
- ▶ Social Studies
- ▶ Math

Looking to login to
Discovery Education Streaming?

LOGIN



Sign Up to Receive Our Newsletter



SCI question everything

SEARCH

SCIENCE TV SHOWS TV SCHEDULES VIDEO PHOTOS TOP TENS QUIZZES GAMES inSCIder SCISPY TOPICS SHOP

How the Universe Works : Dust Devil

Play Video

Witness the Titanic Forces of the Universe



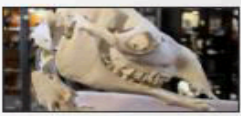



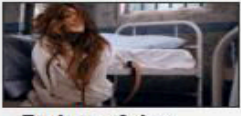
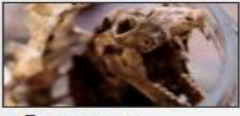
Wednesdays at 9PM e/p

Episodes: [From Earth's Birth to Megastorms](#)
Quiz: [What Planet Are You?](#)
Play: [Space Puzzles](#)
[More »](#)

HOW THE UNIVERSE WORKS

- Construction & Engineering
- Earth Sciences
- Innovation Tech
- Sports & Gaming
- Outer Space
- Travel & Exploration
- Topic Forums
- Top Tens
- Quizzes

VIDEO MORE VIDEO

 <p>Meaning in White Noise Through the Wormhole</p>	 <p>Twisted Miracle Cure Dark Matters</p>	 <p>Merkley Visits The Shop Oddities: San Francisco</p>	 <p>Brutal Punch How the Universe Works</p>
 <p>Dangers of Selflessness Dark Matters</p>	 <p>Theory of Mind Through the Wormhole</p>	 <p>Father of the Lobotomy Dark Matters</p>	 <p>Gruesome Beauties Oddities: San Francisco</p>

Intel Sponsors of Tomorrow.™

How did we get from room-sized computers to infinitesimal nanobots?

Satisfy your curiosity >

ADVERTISEMENT

SHOP SCIENCE CHANNEL

Through The Wormhole



MEMBER LOGIN

Username:

Password:

[Home](#) [Registration](#) [Challenge](#) [Projects](#) [IPR](#) [NMN](#) [Knowledge Bank](#) [Events](#) [Award](#) [Entrepreneurship](#)



Welcome to techpedia

Techpedia, an initiative at SRISTI aims at putting the problems of micro, small and medium enterprises, informal sector, grassroots innovators and other social sectors on the agenda of the young technology students across the country. For over last sixty years, India has not utilized much the technological outputs of millions of students. But no more. Can a knowledge society really afford to ignore the huge talent distributed in thousands of polytechnics, diploma and degree colleges of engineering, pharmacy, medical science, agriculture etc.? SRISTI is providing a platform for the industry and academic institutions to collaborate, co-create and foster distributed and horizontal innovations. Most of the ideas mentioned here have been implemented in the state of Gujarat in close cooperation with Gujarat Technical University and initial results are extremely encouraging.

[read more](#)

Challenges



Textile Technology



Metallurgy



Mechanical Engg



Instrumentation & Control



Information Technology



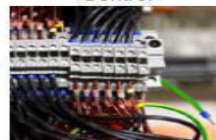
Food Technology



Environment Engg.



Electronics & Communication



Electrical Engg.



Computer Engg.

Search Projects

**GANDHIAN YOUNG
TECHNOLOGICAL
INNOVATION
AWARD 2013**



News & Announcement

26 Nov. 2012 :
APJ Abdul Kalam lauds innovative school kids

26 Nov. 2012 :
36 young innovators awarded at IIM
Ahmedabad

01 Nov. 2012 :
National Innovation Council to present report to
President Pranab Mukherjee

[View All](#)



Message of Appreciation



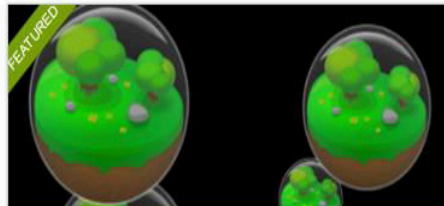
- Dr. A.P.J. Abdul Kalam



- Dr. R. A. Mashelkar

Learn almost anything for free

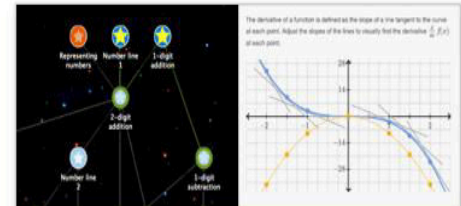
🔍 Examples: Algebra, oxidation, money supply, Leonardo's Last Supper



Explore computer science
Create beautiful art and design your own simulations while learning how to program.



[Learn about the Greek debt crisis](#)
Get a primer on why Greece is in such a tough position in this multi-part series.



Practice your math skills
Practice your math skills from addition to calculus and everything in between.

BROWSE OUR LIBRARY

Math

- Arithmetic and Pre-Algebra
- Algebra
- Geometry
- Trigonometry
- Probability
- Statistics
- Precalculus
- Calculus
- Differential Equations
- Linear Algebra
- Brain Teasers
- Vi Hart

Science

- Biology
- Chemistry
- Organic Chemistry
- Healthcare and Medicine
- Physics
- Cosmology and Astronomy
- Reverse Engineering
- Brit Cruise
- MIT+K12

Computer Science

- Drawing
- Programming Basics
- Animation
- User Interaction

JOIN THE ACADEMY

Log in to Khan Academy

Log in, it's free

Create a profile, save your work, and earn badges.

OR

Subscribe to our courses

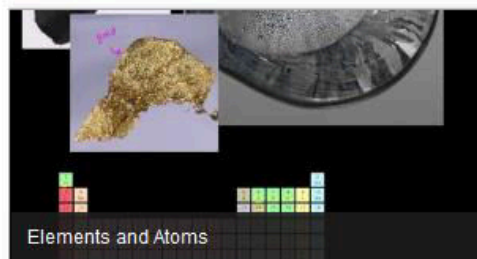
Enter your email to learn about new courses.

Chemistry

🗨️ Community Questions

TOPICS

- Introduction to the Atom
- Orbitals and Electrons
- Periodic table, trends, and bonding
- Chemical reactions (stoichiometry)
- Ideal gas laws
- States of matter
- Reaction rates
- Acids and bases
- Oxidation reduction
- Radioactive decay

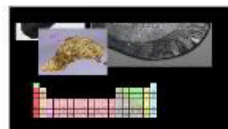


Elements and Atoms

Chemistry

Videos on chemistry (roughly covering a first-year high school or college course).

Topics



Introduction to the Atom

Browse 2 videos



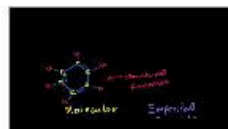
Orbitals and Electrons

Browse 5 videos



Periodic table, trends, and bonding

Browse 5 videos



Chemical reactions (stoichiometry)

Browse 9 videos



Ideal gas laws

Browse 7 videos



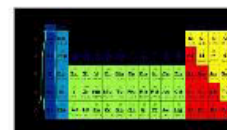
States of matter

Browse 12 videos



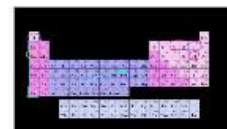
Reaction rates

Browse 8 videos



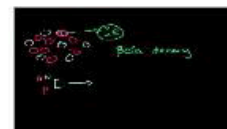
Acids and bases

Browse 12 videos



Oxidation reduction

Browse 5 videos



Radioactive decay

Browse 5 videos



NPTEL >> Courses

Courses by Discipline	Courses by Coordinating Institute	Find Courses	NPTEL feedback
IISc Bangalore (116) IIT Kanpur (213)	IIT Bombay (134) IIT Kharagpur (198)	IIT Delhi (123) IIT Madras (250)	IIT Guwahati (121) IIT Roorkee (86)

No of Courses found : 1241

DisciplineName	Course Name	Type	Coordinators	Institute	Available
Electronics & Communication Engineering	Adaptive Signal Processing	Video	Prof. Mrityunjoy Chakraborty	IIT Kharagpur	Course contents
Civil Engineering	Advance Geotechnological Engineering	Web	Dr. Nihar Ranjan Patra	IIT Kanpur	Course contents Q
Mechanical Engineering	Advanced Finite Elements Analysis	Video	Dr. R. Krishnakumar	IIT Madras	Course contents
Metallurgy and Material Science	Advanced Materials and Processes	Video	Prof. B.S. Murty	IIT Kharagpur	Course contents
Mechanical Engineering	Advanced Operations Research	Video	Prof. G. Srinivasan	IIT Madras	Course contents
Electrical Engineering	Analog ICs	Video	Prof. K. Radhakrishna Rao	IIT Madras	Course contents
Basic courses(Sem 1 and 2)	Applied mechanics	Video	Prof. Sanjeev Sanghi Prof. R.K. Mittal	IIT Delhi	Course contents
Ocean Engineering	Applied Thermodynamics for Marine Systems	Video	Prof. P.K. Das	IIT Kharagpur	Course contents
Computer Science and Engineering	Artificial Intelligence(Prof.P.Dasgupta)	Video	Prof. P. Dasgupta	IIT Kharagpur	Course contents
Physics	Astrophysics & Cosmology	Video	Prof. S. Bharadwaj	IIT Kharagpur	Course contents Q
Mechanical Engineering	Basic Thermodynamics	Video	Prof. S.K. Som	IIT Kharagpur	Course contents
Chemistry and Biochemistry	BioChemistry I	Video	Prof. S. Dasgupta	IIT Kharagpur	Course contents
Computer Science and Engineering	CAD for VLSI Design II	Web	Prof. V. Kamakoti Prof. Shankar Balachandran	IIT Madras	Course contents
Electrical Engineering	Chaos, Fractals & Dynamic Systems	Video	Prof. S. Banerjee	IIT Kharagpur	Course contents
Chemical Engineering	Chemical Technology - II	Web	Dr. U. Ramagopal	IIT Guwahati	Course contents Q



[Ads by Google](#)

[Science Video](#)

[Download Free Video](#)

[College Lectures](#)

[Download Video](#)

NEW 1000+ Free College Courses with Video Tutorials **NEW**

Unbelievable **Lofares** Everyday

Ahmedabad to Mumbai

JET AIRWAYS

[Book Now](#)

Featured Online Courses

 +1 754

 Share 6656

 Tweet 4434

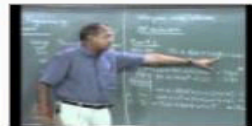
 ShareThis 48.9K

 Like 7.4k



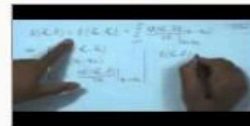
Flight Dynamics II (Stability)

IIT Madras / Astronomy
Aerospace (41 videos)



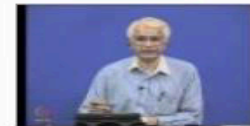
Operations and Supply Chain Management

IIT Madras / Business Management (34 videos)



Regression Analysis

IIT Kharagpur / Mathematics (40 videos)



Relativistic Quantum Mechanics

IISc Bangalore / Physics (25 videos)



Applied Multivariate Analysis

IIT Kanpur / Mathematics (43 videos)

Subjects

[Accounting](#) [Anatomy Physiology](#) [Astronomy Aerospace](#) [Bio Technology](#) [Biology](#) [Business Management](#) [Calculus](#) [Chemistry](#) [Civil Engineering](#) [Communication Skills](#) [Computer Science](#) [Data Structures](#) [Economics](#) [Electrical Engineering](#) [Electronics](#) [Entrepreneurship](#) [Genetics](#) [Health Sciences](#) [History](#) [IC Design](#) [Languages](#) [Law](#) [Literature](#) [Mathematics](#) [Mechanical](#) [Medicine](#) [Metallurgy and Material Science](#) [Networking](#) [Ocean Engineering](#) [Other Courses](#) [Philosophy](#) [Physics](#) [Programming](#) [Psychology](#) [Signals Systems](#) [Social Sciences](#) [VLSI and ASIC Design](#) [Web Designing](#)

Colleges and Universities

[Columbia University](#) [Harvard](#) [Hillsborough Community College](#) [IISc Bangalore](#) [IIT Bombay](#) [IIT Delhi](#) [IIT Guwahati](#) [IIT Kanpur](#) [IIT Kharagpur](#) [IIT Madras](#) [IIT Roorkee](#) [Khan Academy](#) [Lancaster University](#) [London School of Business and Finance](#) [McGill](#) [MIT](#) [New Jersey Institute of Technology](#)

eGyanKosh

Indira Gandhi National Open University



SCHOOLS



LIVE



IGNOU



REPOSITORY



IGNOU Broadcast Archive

+ Subscribe

2,033 subscribers

182,706 video views

Featured | Feed | Videos

Search Channel



IGNOU Broadcast Archive

+ Subscribe

Featured | Feed | Videos



VTS 01 1
by egyankoshIGNOU 1 month ago

813 views

About IGNOU Broadcast Archive

The Indira Gandhi National Open University, established by an Act of Parliament in 1985, has emerged as the largest mega University in the democratic world.

It began by offering two academic programmes in 1987 i.e. Diploma in Management and Dipl...

more ▾

ignouonline.ac.in

by egyankoshIGNOU

Latest Activity	Aug 3, 2012
Date Joined	Feb 22, 2008
Age	42
Location	New Delhi
Country	India

Various IGNOU Channels

School of Computer and Info...
4,400 subscribers

School of Management Stud...

Featured Channels





School of Vocational Education and Training

+ Subscribe

52 subscribers

5,506 video views

Featured Feed Videos

Search Channel

Uploaded videos 1-10 of 11

▶ Play all



Drugs Regulatory Affairs

ignousovet 1,410 views 1 year ago

28:37



Pharmaceutics

ignousovet 674 views 1 year ago

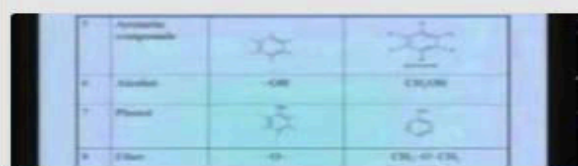
36:20



Pharmaceutical Chemistry - II

ignousovet 817 views 1 year ago

40:55



Pharmaceutical Chemistry Part-1

ignousovet 1,250 views 1 year ago

About School of Vocational Education and Training

The School of Vocational Education and Training (SOVET), in tune with these objectives, has started several new programmes which have been made keeping in mind the market requirements. The programs on offer provide knowledge enhancement, skills de...

more ▼

[ignou.ac.in/ignou/aboutignou/school/...](http://ignou.ac.in/ignou/aboutignou/school/)

by ignousovet	
Latest Activity	Jun 27, 2011
Date Joined	May 13, 2008
Age	27
Location	New Delhi
Country	India

Featured Playlists

Uploaded videos
by School of Vocational Education and Training

view all >

Class Central

search for courses

Class Central is a free online course aka MOOC aggregator from top universities like Stanford, MIT, Harvard, etc. offered via Coursera, Udacity, edX, Canvas Network, & others [Learn More](#)

Recently started or starting soon (61) Just Announced (54) Courses in Progress (129) Future courses (290) Self Paced (29) Finished courses (143)

Get the latest updates



New MOOC starting April 15 on Language Teaching from Instreamia, the team behind SpanishMOOC


MOOC Course Report – Month of April, 2013. 66 courses from Coursera, edX, OpenLearning, Open2Study, Venture Lab, Canvas Networks, MRUniversity, and others.

Recently started or starting soon (61)

Intro	Course Name	Instructor(s)	Stream	Start Date	Length	Initiative
	Web Intelligence and Big Data Indian Institute of Technology Delhi Indraprastha Institute of Information Technology Delhi	Gautam Shroff	Computer Science	24th Mar, 2013	10 weeks	Coursera
	Global Sustainable Energy: Past, Present and Future University of Florida	Wendell Porter	Science	24th Mar, 2013	15 weeks	Coursera
	Algorithms, Part II Princeton University	Robert Sedgewick Kevin Wayne	Computer Science	25th Mar, 2013	7 weeks	Coursera
	Learn to Program: Crafting Quality Code University of Toronto	Jennifer Campbell Paul Gries	Computer Science	25th Mar, 2013	5 weeks	Coursera
	Computational Photography Georgia Institute of Technology	Irfan Essa	Computer Science	25th Mar, 2013	5 weeks	Coursera

www.academicearth.org



 Sign in with Facebook or [Login](#) | [Create an Account](#)


Subjects ▾

Universities

Instructors

Playlists

Blog

 Search

GO

A world-class education at your fingertips.

Academic Earth aims to provide everyone with the opportunity to earn a world-class education by offering free online classes and online learning tools. Whether you're looking to advance your career or take classes that interest you, Academic Earth can connect you to the world's top universities and scholars. Click below to learn how.

[Watch a Lecture](#)

Connect with Us:



Yale

Carnegie Mellon

STANFORD
UNIVERSITY

MIT
Massachusetts
Institute of
Technology

Berkeley
UNIVERSITY OF CALIFORNIA

 Dartmouth
College



COURSEsites
by Blackboard

Login

Sign Up

Learn More

Get Started

Hear From Users

What's New

MOOC Catalog

Blog

Move Your Courses Online **Free**

Introducing The New CourseSites

- Create up to 5 course websites, free.
- Engage students in social learning.
- Weave multimedia into class content.
- Assess performance and manage grades.
- Share Open Education Resources.



http://www.collegeopentextbooks.org



Driving Awareness and Adoption
of Open Textbooks

Search...

[Home](#)

[About Us](#)

[Open Textbook Content](#)

[Adoption Resources](#)

[Success Stories](#)

[Badges](#)

[Press Room](#)

[Events](#)

[College Open Textbooks Blog](#)

[Contact us](#)

[Join the Community](#)

STAY IN TOUCH WITH US



Like 139 people like this. Be the first of your friends.

You are here: [Home](#) ▶ [Open Textbook Content](#) ▶ [Open Textbooks by Subject](#)

Open Textbooks by Subject

- ▶ [Anthropology and Archeology](#)
- ▶ [Art](#)
- ▶ [Biology & Genetics](#)
- ▶ [Business](#)
- ▶ [Chemistry](#)
- ▶ [Computer Science](#)
- ▶ [Economics](#)
- ▶ [Education](#)
- ▶ [Engineering & Electronics](#)
- ▶ [English & Composition](#)
- ▶ [Health & Nursing](#)
- ▶ [History](#)
- ▶ [Languages and Communications](#)
- ▶ [Law](#)
- ▶ [Literature](#)
- ▶ [Math](#)
- ▶ [Music](#)
- ▶ [Philosophy](#)
- ▶ [Physics](#)
- ▶ [Political Science](#)
- ▶ [Psychology](#)
- ▶ [Science](#)
- ▶ [Sociology](#)
- ▶ [Statistics & Probability](#)

See College Open Textbook list of Adoptions

[List of Adoptions](#)

See adoptions of the "Collaborative Statistics" Open Textbook

[Adoptions of Collaborative Statistics](#)



Open Academics

CEHD | College of Education + Human Development

Search the Catalog

search

Browse Subjects

Accounting & Finance

Business, Management & Marketing

Computer Science & Information Systems

Economics

General Education

Humanities & Language

Law

Mathematics & Statistics

Natural & Physical Sciences

Social Sciences

Open Textbook Catalog

In an effort to reduce costs for students, the College of Education and Human Development has created this catalog of open textbooks to be reviewed by faculty members. [Read full press release](#)

Open textbooks are complete textbooks released under a Creative Commons, or similar, license.

Instructors can customize open textbooks to fit their course needs by remixing, editing, and adding their own content. Students can access free digital versions or purchase low-cost print copies of open textbooks.

Textbooks in this Catalog

All textbooks in the catalog are:

- **Openly Licensed.** Acceptable licenses include Creative Commons Attribution, Attribution-Share Alike and Attribution-Noncommercial-Share Alike or similar. Some books may fall under a No-Derivatives license if the publisher offers an adequate customization program.
- **Complete.** Only complete books, similar to traditional textbooks currently on the market, are included. Materials such as lecture notes, online courses, or drafts, are provided only as supplements to textbooks listed in the catalog.
- **Suitable for Adoption Outside the Author's Institution.**
- **Available in Print.** Because most students still prefer print textbooks to digital, all textbooks include a print option, generally for \$40 or less. In some cases, textbooks without a print-on-demand option may be included if they are sufficiently easy and inexpensive to print locally.

Contribute Reviews

If you are a faculty member from any institution, you can support this project and help your peers evaluate the textbooks in this catalog by writing a review of an open textbook in your field.

Only experts like you can determine quality.

Email us at open@umn.edu to get started.

<http://www.flatworldknowledge.com>



 [Students, this way >](#) |  [Sign up >](#) or  [Log In >](#)

[Our Catalog >](#) | [Educators >](#) | [Students](#)

The #1 Publisher of Open College Textbooks

We are the world's largest publisher of free and open college textbooks. With our ever-expanding catalog of top quality books by expert authors, now is your chance to be a hero and help your students save thousands of dollars. Get started today and join the textbook affordability movement.

[VISIT OUR CATALOG](#)

[Learn more >](#)

[Or, request more information >](#)

Since Spring of 2009 our books have been used at **over 2000 Schools** in **44 Countries**

Success Stories

View a Catalog Category



[Business & Economics >](#)



[Humanities & Social Sciences >](#)



[Professional & Applied Sciences >](#)



[Mathematics >](#)



[Sciences >](#)

Our Solution

The Problem



Soaring Prices

New business book = \$150+
 Student cost per year = \$950+
 Average price increase = 10%+ per year
 Students = Frustrated



Limited Choices

You choose the book. Your students buy it. Their usual choices? High-priced books, or go without.



No Flexibility

Even a great book is never perfect. Often, you change your course to fit the book. Shouldn't it be the other way around?



Rapid-fire New Editions

Feel like you just went to the new edition? You probably did. Publishers have increased the pace of new editions to combat used books.



Choosing Price vs. Quality

Until now, most "affordable" textbooks were of inferior quality with limited supplements — not a tradeoff you should have to make.

Our Solution



Free

Our books are *free* online. Really.

[See How](#)



Freedom to Choose

You choose the book. Your students choose the format and price. We sell print-it-yourself, audio, and soft-cover versions.

[See How](#)



Open & Customizable

Use our books as-is, or modify them to better fit your course. We provide an open license and an easy-to-use platform. Turn "our" books into "your" books.

[See How](#)



New Editions on Your Terms

Never be forced to a new edition again. We print on demand, so no inventory to manage. Switch to our new editions when you want to.



Have it All

Our books are written by expert authors, professionally developed and peer-reviewed. We provide supplements such as test banks, instructor manuals, and lecture slides.

[See How](#)

Find the book you need  Search for a book

Go!

Textbooks

- Accounting ▶
- Career & Study advice ▶
- Economics & Finance ▶
- Engineering ▶
- IT & Programming ▶
- Marketing & Law ▶
- Natural Sciences ▶
- Statistics & Mathematics ▶
- Strategy & Management ▶



Search or browse categories



Choose a book



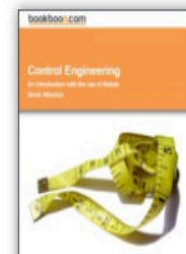
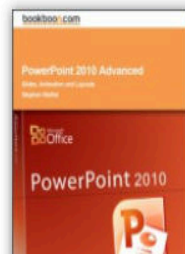
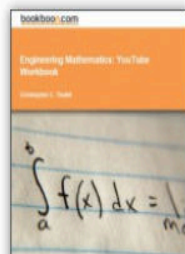
Download in 10 seconds

Download 1000 **FREE** eBooks
Easy and without registration

Business

- Accounting & Finance ▶
- Career management ▶
- Communication & Presentation ▶
- Engineering ▶

Most popular free eBooks



Choose language

EN | DE | FR | NL | DA | SV | NB | FI | ZH

1000+ OA books

bookboon.com

Download free books



Textbooks



Business



Travel guides

Download free textbooks online - Bookboon's free online textbooks for students are focused and to the point. They are all written by highly respected professors from top universities in the world and cover topics such as economics, statistics, IT, engineering and natural science.

We finance our textbooks with a low number of high quality advertisements. We have set a 15% advertising limit per book. This limit has been set together with professors, business professionals, and student organizations in order to ensure the whole experience is in line with the high quality level of our books.



Textbooks

Accounting

Accounting (video)

Biology & Biochemistry

Calculus & Complex Functions

Career & Personal Development

Chemistry & Chemical Engineering

Civil Engineering

Economics

Electrical & Electronic Engineering

Energy & the Environment

Environmental Engineering

Find the book you need



Search for a book

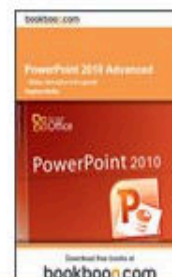
search

Best sellers

Excel 2010 Advanced

Microsoft Office Excel
2007Effective Communication
Skills

Perfect Presentations

PowerPoint 2010
Advanced

www.doaj.org >9000 titles

DOAJ DIRECTORY OF
OPEN ACCESS
JOURNALS

ASAP
ACCELERATING
SCIENCE AWARD
PROGRAM

[Search](#) | [Browse](#)

[Suggest](#) | [Support DOAJ](#) | [For publishers](#) | [About](#) | [Contact us](#) | 

 [Advanced Search](#)

In: Journals Articles

9603 journals

4859 journals searchable at article level

120 Countries

1118799 articles

News

- [2013-06-12 DOAJ announces new selection criteria](#)
- [2013-06-12 DOAJ announces the DOAJ Seal!](#)
- [2013-05-20 DOAJ on the road in 2013](#)

[Archive](#)

[Search](#)[Browse](#)[DOABlog](#)[FAQ](#)[For publishers](#)[Our sponsors](#)[About](#)[Contact](#)[Advanced search](#)

Purpose of DOAB

The primary aim of DOAB is to increase discoverability of Open Access books. Academic publishers are invited to provide metadata of their Open Access books to DOAB. Metadata will be harvestable in order to maximize dissemination, visibility and impact. Aggregators can integrate the records in their commercial services and libraries can integrate the directory into their online catalogues, helping scholars and students to discover the books. The directory will be open to all publishers who publish academic, peer reviewed books in Open Access and should contain as many books as possible, provided that these publications are in Open Access and meet academic standards.

1450 Academic peer-reviewed books from **49** publishers

News [Register for newsletter](#)

- 2013-06-17 DOAB selected as 'Best Free Reference Web Site'
- 2013-05-21 [Announcing the official launch of the Directory of Open Access Books](#)
- 2013-05-21 [Open Access Monographs in the Humanities and Social Sciences Conference](#)
- 2012-11-14 [DOAB User Needs Report: now available](#)

[Archive](#)

http://databib.org/



Databib

Find Repositories | Submit | Connect | About

Login/Register

Featured Repository

Minnesota Population Center

519 data repositories
total in Databib.

Recently Added

- Prognostics Data Repository
- MEASURE DHS (Demographic and Health Surveys)
- Ocean Data and Information System
- Data Application Environment of Chinese Academy of Sciences(CAS)
- Earth System Research

Databib is a searchable catalog / registry / directory / bibliography of **research data repositories**.

Search

Find

[Advanced Search](#)

Browse [[Alphabetical](#) | [A](#) [B](#) [C](#) [D](#) [E](#) [F](#) [G](#) [H](#) [I](#) [J](#) [K](#) [L](#) [M](#) [N](#) [O](#) [P](#) [Q](#) [R](#) [S](#) [T](#) [U](#) [V](#) [W](#) [X](#) [Y](#) [Z](#) | [All](#)]

Agriculture

- Census of Agriculture
- FAOSTAT
- Gramene
- ISRIC World Soil Information (International Soil Reference and Information Centre)
- International Food Policy Research Institute
- MaizeGDB
- National Agricultural Statistics Service
- SoyBase
- VegBank

Area, Ethnic, and Gender Studies

- Africa Centre for Health and Population Studies
- American FactFinder
- AmericasBarometer Surveys
- Australian Data Archive
- Center for Population Research in LGBT Health
- Demographic and Health Surveys
- DiversityData.org
- North American Jewish Data Bank
- Resource Center for Minority Data (RCMD)



Quality open source software —
for higher education, by higher education

SEARCH CONTACT FIND PEOPLE



Software

Community

Join

- Kuali Rice
- Kuali Financial System
- Kuali Coeus
- Kuali Mobility
- Kuali Open Library Environment**
- Kuali People Management
- Kuali Ready
- Kuali Student

← explore
Kuali software
the framework
for
self-sustaining
software projects

Join us
Become part of
our community

Adopt
It's easy to get
started with Kuali

Support
Help when you
need it

Let's talk
value...

Invest **Less.**
Get **More.**



Open Library Environment

Overview

Modules

News Blog

Organization

Presentations

Timeline

Partners

Overview of OLE

Open Library Environment (OLE) - An Extensible Service-Driven Library Management System

Kuali OLE is the first system designed by and for academic and research libraries for managing and delivering intellectual information.

A community of partners will deliver an enterprise-ready, community-source software package to manage and provide access not only to items in their collections but also to licensed and local

digital content. Kuali OLE (pronounced oh-LAY, for Open Library Environment) features a governance model in which the entire library community can collaborate to own the resulting intellectual property.



Summary

- Built, owned, governed by the academic and research library community
- Supports the wide range of resources and formats of scholarly information
- Interoperates & integrates with other enterprise and network-based systems



Download
the source
code



Test Drive
this application

Overview

Modules

Acquire Entity

Deliver Entity

Describe Entity

Manage Entity

Manage Entity Relationship

Manage User Relationship

Select Entity

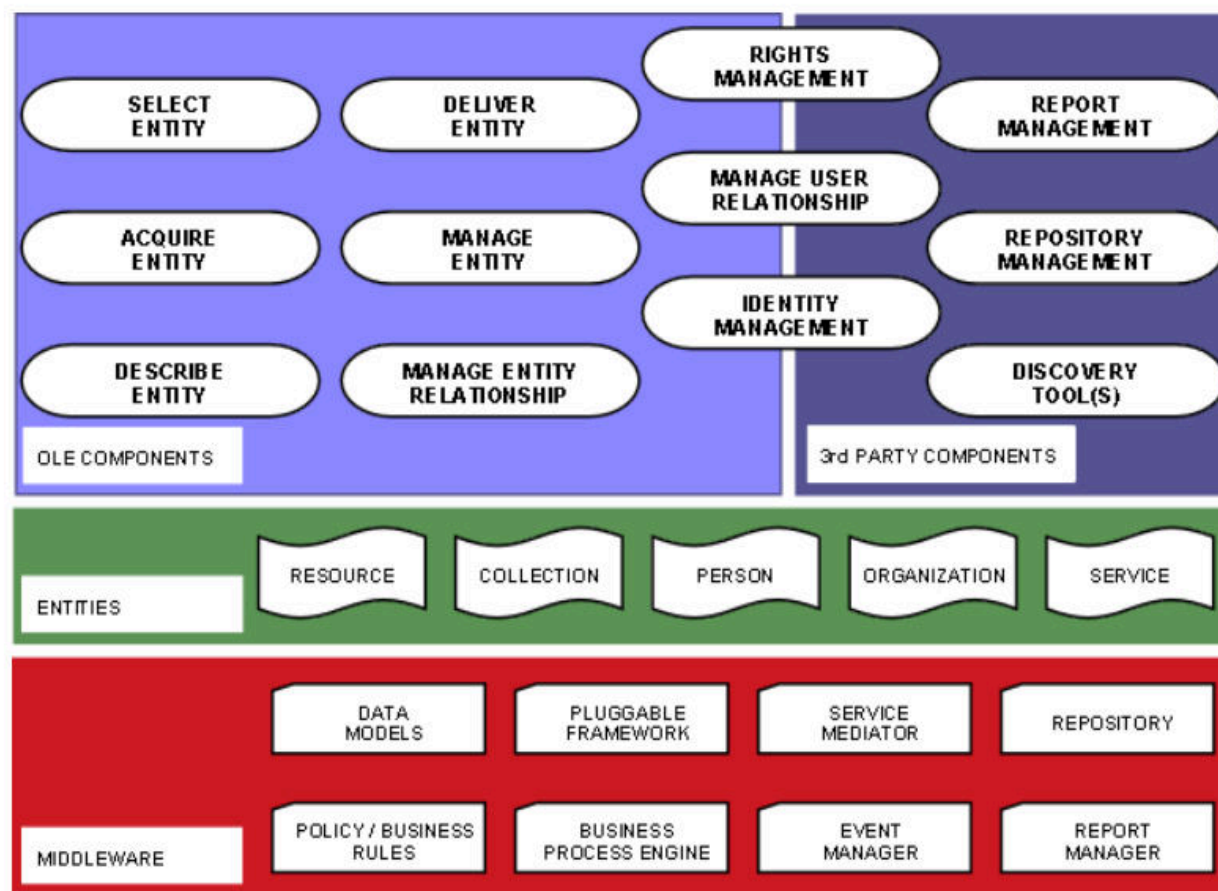
News Blog

Organization

Presentations

Timeline

Modules (OLE Reference Model)



Kuali OLE Road Map

Kuali OLE 1.0

Target date: Q4 2013

Select & Acquire

- Serials receiving workflows
- Voucher output and transmittal
- Initial integration with GOKb
- Electronic acquisitions workflows

Deliver

- Patron self services
- Circulation standards: NCIP
- Integration with ILL and Course Reserve Systems

Describe

- Batch editing
- Record extraction
- Support for analytics
- Support for “staff only” records

Kuali OLE 1.0 Ready for Implementation

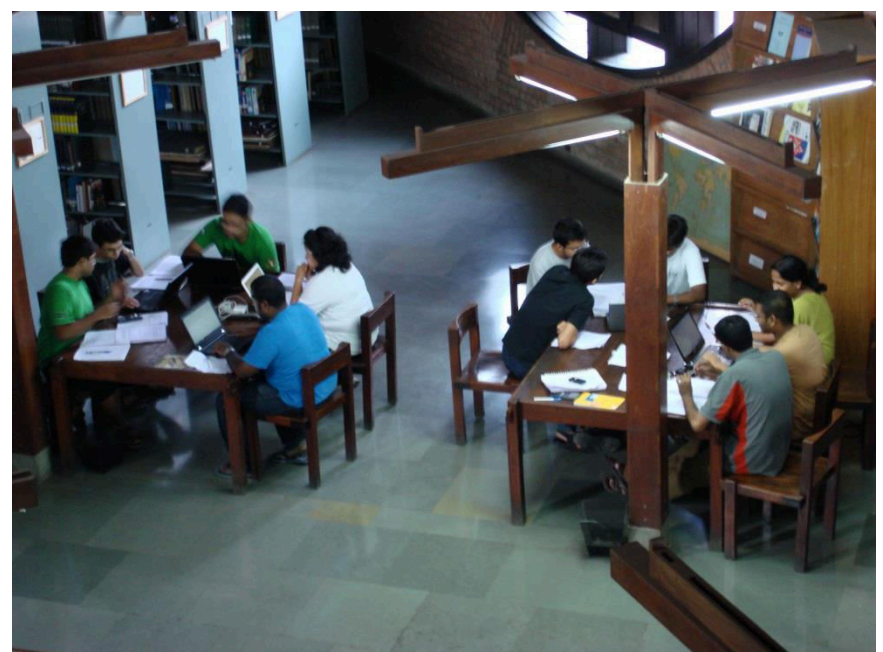
Implementation Tools

- Reporting Tools
- Documented API & service registry
- Distribution packaging
- Framework for training development
- Documentation
- Completed migration toolkit
 - Descriptive data
 - Circulation history
 - Acquisition history
- Complete system ready for implementation
- Exposed Service Registry

Users @ VSL



Users @ VSL



Users @ VSL





THANK YOU!

anilkumar@iimahd.ernet.in