Webinar 1: ICT RESOURCES AND TOOLS FOR ENHANCING TEACHING LEARNING PROCESS
For faculty members of University departments

4TH FEBRUARY 2021
MS TEAMS – “IQAC WEBINAR”

Resource person: Dr.K. Elavazhagan
Librarian & Chief Knowledge Officer, IIM-Trichy

Organized by
INTERNAL QUALITY ASSURANCE CELL & CENTRAL LIBRARY

ANNA UNIVERSITY
CHENNAI – 600025
<table>
<thead>
<tr>
<th>Sl.No.</th>
<th>Description</th>
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<td>2</td>
<td>VC approval letter</td>
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The Internal Quality Assurance Cell and University Library jointly organized a Webinar titled “ICT Resources and Tools for enhancing Teaching Learning Process” on 4th Feb 2021 from 3.30 PM to 4.30 PM for the benefit of the faculty members of Anna University – University Departments. The invited speaker, Prof. K. Elavazhagan, Librarian & Chief Knowledge officer, IIM – Trichy, presented the webinar through online mode using MS TEAMS virtual platform. Around 149 faculty members from the four campuses (CEG, MIT, ACT and SAP) of Anna University attended the webinar.

Prof. Kurian Joseph, Director-IQAC welcomed the gathering and outlined the significance of ICT tools, LMS, IT based management systems. He thanked the chief guest Dr.K.Elavazhagan for readily accepting to present the webinar. Dr.G.Krishnamoorthy, Professor in charge, Library, who had arranged the speaker for the webinar introduced the speaker to the audience.

The chief guest Dr.K. Elavazhagan made his presentation highlighting the following points:

- Paradigm shifts in education landscape
- Lack of committed, concerned, creative, competent and motivated teachers
- Technology plays a major role in TLE
- User community (Students) is the centre and Faculty members are content providers
- Search Engines, Multimedia software packages, Cloud storage, etc. can be effectively utilized for ICT based TLE
- Open access resources
- Education system of different era
- Online education market

Dr. Balamurugan, IQAC - MIT Campus Coordinator cum Webinar Coordinator thanked the chief guest for the informative session. He also thanked the Professor-in-charge, Library for his initiatives to organize this lecture. He also expressed thanks on behalf of the IQAC team to the audience for their attentive and active participation in the webinar.

A Q&A session was conducted from 4.45 to 5.10 PM. The Webinar concluded at 5.10 PM with the Director thanking the chief guest, Director-Library, IQAC team and the participants.
Screenshots taken during the interaction sessions
**NOTE SUBMITTED TO THE VICE CHANCELLOR**

Esteemed Professor,

Sub: IQAC – Conduct of Webinar Series on Quality related topics – Approval requested – Reg.

As part of the quality sustenance and enhancement activities of IQAC, it is proposed to conduct a series of webinars, each of 1.5 hours duration, on every Thursday afternoon, starting with 4th February 2021, on various quality related topics for the benefit of all faculty members. The proposed Titles and Resource persons for the month of February 2021 are as follows:

<table>
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<tr>
<th>Sl. No.</th>
<th>Date</th>
<th>Title of the Webinar</th>
<th>Resource Persons</th>
<th>Coordinator</th>
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<tr>
<td>1</td>
<td>04.02.2021</td>
<td>ICT Resources and Tools for enhancing Teaching Learning Process.</td>
<td>1. Prof. K. Elavazhagan Librarian &amp; Chief Knowledge officer, IIM - Trichy</td>
<td>Dr. G. Balamurugan, IQAC MIT Campus Coordinator</td>
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<td></td>
<td></td>
<td></td>
<td>2. Dr. G. Krishnamoorthy, University Librarian (Retired) and Consultant, AU Library</td>
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<td>2</td>
<td>11.02.2021</td>
<td>1. Research, Consultancy, and Extension activities in the NAAC accreditation of HEIs</td>
<td>1. Prof. K. Bhaskar Director-CTDT</td>
<td>Dr. K.V.Radha IQAC ACT Campus coordinator</td>
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<td></td>
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<td>2. Skill of writing Research article</td>
<td>2. Prof. K.P. Jaya, Director-Research</td>
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<td>3</td>
<td>18.02.2021</td>
<td>Strengthening Student Support activities</td>
<td>Prof. S. Ganesan Director -Health Centre</td>
<td>Mrs. R. Rajeswari IQAC SAP Campus coordinator</td>
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Duration of the webinar : 3.30 PM to 5.00 PM (1.5 hours), every Thursday
Webinar platform : MS Teams “IQAC Webinar”
Target audience : All faculty members of University Depts.

It is requested that approval may please be granted to conduct the webinars as per the above schedule and pay an honorarium of Rs.1500 per session for the Resource Person invited from other institution (Prof. K. Elavazhagan Librarian & Chief Knowledge officer, IIM – Trichy).

DIRECTOR, IQAC

REGISTRAR

APPROVED / NOT-APPROVED

VICE CHANCELLOR
CIRCULAR

To

Deans of campuses
Directors of Academic Centres
HODs of Departments


Ref: Lr. No. AU-IQAC/11547/Webinars/2020 dated 1.2.2021 approved by Vice Chancellor

*****

A webinar is being organized jointly by IQAC and University Library as per the following details:

Title of Webinar: ICT Resources and Tools for enhancing Teaching Learning Process

Resource person: Prof. K. Elavazhagan, Librarian & Chief Knowledge officer, IIM - Trichy

Date and Time: 04.02.2021 (Thursday), 3:30 PM – 4.30 PM

Online platform: MS TEAMS - “IQAC Webinar”

All the faculty members are requested to attend the webinar without fail.

REGISTRAR

CC:
1. Professor in charge, Library and Director, IQAC - Coordinators of the programme.
2. PA to Registrar.
3. PS to VC.
Title of Webinar: ICT Resources and Tools for Enhancing Teaching Learning Process
Resource Person: Dr. K. Elavazhagan, Librarian & Chief Knowledge Officer, IIM-Trichy
Date of Webinar: 04th February 2021

Programme Schedule

<table>
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<td>3.15PM – 3.30PM</td>
<td>Registration</td>
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<td>3.30 PM – 3.32PM</td>
<td>Welcome Address Dr. Kurian Joseph, IQAC Director, Anna University</td>
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<tr>
<td>3.32PM – 3.34PM</td>
<td>Introduction of Chief Guest Dr. G. Krishnamoorthy, Librarian, Anna University</td>
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| 3.34PM – 4.25PM  | Session by Speaker
Topic “ICT Resources and tools for Enhancing Teaching and Learning Process”
Dr. K. Elavazhagan, Librarian & Chief Knowledge Officer, Indian Institute of Management, Trichy |
| 4.25PM – 4.29PM  | Question and Answer Session                                              |
| 4.29PM – 4.30PM  | Vote of Thanks
Dr. G. Balamurugan, IQAC-MIT Campus Coordinator, Anna University |
PROFILE OF RESOURCE PERSON

NAME OF THE RESOURCE PERSON: **DR. K. ELAVAZHAGAN**

DESIGNATION: LIBRARIAN & CHIEF KNOWLEDGE OFFICER

QUALIFICATION: DOCTOR OF PHILOSOPHY

EXPERIENCE

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<tr>
<td>2011-Present</td>
<td>Librarian &amp; Chief Knowledge officer, IIM-Trichy</td>
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<tr>
<td>2009-2011</td>
<td>Head of the Library- Goethe, Institute German Library</td>
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<td>1989-2009</td>
<td>Assistant Librarian-British Council Library</td>
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HONORS AND AWARDS

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<td>DR. HARISH CHANDRA SUSHILA CHANDRA NATIONAL BEST LIBRARIAN OF 2017</td>
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<td>2016</td>
<td>DR. A.P.J. ABDUL KALAM BEST LIBRARIAN AWARD</td>
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TOPIC HANDLED IN WEBINAR: **ICT RESOURCES AND TOOLS FOR ENHANCING TEACHING LEARNING PROCESS**

DATE AND TIME OF SESSION: **04th February 2021, 03.30PM to 04.30PM**
Invitation as Resource Person for the Anna University IQAC Webinar "ICT tools for effective teaching and learning environment" on 04.02.2021 - Reg

From <iqac@annauniv.edu>
To Ela <ela@iimtrichy.ac.in>
Cc LIBRARY 2 <krishnamoorthyg@annauniv.edu>, Bhuvan <bhuvan@annauniv.edu>, IQAC MIT <balanmail12@gmail.com>, IQAC 4 (DD 2) <sabitha.ramakrishnan@gmail.com>, IQAC 3 (Director) <kuttiani@gmail.com>
Date 2021/02/02 20:34

Kind attention:

Dr. K. Elavazhagan
Librarian & Chief Knowledge Officer
INDIAN INSTITUTE OF MANAGEMENT TIRUCHIRAPPALLI
Pudukottai Main Road
Chinna Sooriyur Village
Tiruchirappalli - 620 024.
Tel: 0431 - 2505045

Dear professor,

The Internal Quality Assurance Cell (IQAC) of Anna University conducts various activities to enhance the quality of teaching and learning of faculty members in our campus. As a part of it, IQAC jointly with AU-Library conducting a webinar on 04.02.2021 (Thursday). The webinar topic is "ICT tools for effective teaching and learning environment" and the duration of lecture is 60 minutes (3:30pm to 4:30pm). The participants of Anna University faculty members will benefit a lot from your lecture.

It is requested to be a Resource Person for the Webinar session and deliver a talk on the Topic "ICT tools for effective teaching and learning environment". The session will be organized Online in MS Teams Platform and link for the same will be shared soon.

We are looking for a positive response.

Dr. G.Krishnamoorthy, Librarian (Rtd) Anna University will be coordinating with you in this regard.

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Thanks and Regards
Prof. Dr. Kurian Joseph
Director-IQAC
Anna University, Chennai, Tamil Nadu-600025.
## Attendance on IQAC Webinar-1

"ICT Resources and Tools for enhancing Teaching Learning Process"

**Total Number of Participants: 149**

<table>
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<tr>
<th>S.No.</th>
<th>Name of the Faculty</th>
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<td>Librarian &amp; Chief Knowledge Officer, Indian Institute of Management, Trichy</td>
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<td>3</td>
<td>Prof. KURIAN JOSEPH</td>
<td>Director, IQAC</td>
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<td>4</td>
<td>Dr Sabitha Ramakrishnan</td>
<td>Deputy Director, IQAC</td>
<td>04/02/2021, 15:16:01</td>
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<td>Dr. K. V. RADHA</td>
<td>IQAC Campus Coordinator, ACT Campus</td>
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<td>Dr. G. Balamurugan</td>
<td>IQAC Campus Coordinator, MIT Campus</td>
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<td>Rajeswari R</td>
<td>IQAC Campus Coordinator, SAP Campus</td>
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<td>Prof. Dr. J. Prakash</td>
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<td>Dr D. Sridharan</td>
<td>Faculty of Anna University</td>
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<td>Dr. J. Prabha</td>
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<td>Dr Priya</td>
<td>Faculty of Anna University</td>
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<td>Dr R Ravi Raja Malar Vannan</td>
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<td>Dr. A. Merline Sheela</td>
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<td>Dr. S.MANISHA VIDYAVATHY</td>
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<td>Dr. SHILOAH ELIZABETH D.</td>
<td>Faculty of Anna University</td>
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Dr. K. Elavazhagan
Librarian & Chief Knowledge Officer
Indian Institute of Management, Tiruchirappalli

Date: 04.02.2021 (Thursday)  Time: 3:30pm – 4:30pm

ICT resources & tools for enhancing teaching and learning process

Any technology which *increase the rate of learning* would enable the teacher to *teach less* and the learner to *learn more*.

Learning is not the product of teaching. It is the *product of the activity of learners*. 

*Teachers will not be replaced by technology, but teachers who don’t use technology will be replaced by those who do.*

-Sheryl Nussbaum-Beach
- Increased use and integration of technology.
- Globalized approaches to learning.
- Awareness of economic factors affecting education.
- Need for a highly skilled, competitive workforce.
- “Borderless” and cross-border education.
- Increased student and faculty mobility.
- Individualized, customizable, learner-centred approaches.
- Strategic partnerships and alliances among governments, school boards, schools and individual educators.
- Emergence of non-formal and informal learning, driven by technology
- Frameworks, benchmarks and other asset-based approaches to assessment.

**Paradigm shifts in education landscape**

The development of lifelong learning as a human right,

The global democratisation of knowledge, and

The development of the global knowledge society

*From an orthodox teacher centred classroom to a modern dynamic learner centred classroom*

**Process Oriented NOT Content Oriented**

**Issue Based Curriculum**
• By 2025, India will have 119 million 18 to 22 year olds - India will be home to the largest student population in the world by then.

• We might expect to see virtual mentors who will, in time, not even be human but will be an interface to other students and electronic libraries.

• Traditional forms of learning such as lectures, classes and examinations will change, probably in ways that we cannot yet imagine. Classes

• Degrees will become much less important than they have been, Instead HEIs will start offering short courses with individual certifications to meet the changing demands of employers and students in a pattern of lifelong learning.

---

Lack of

Committed
Concerned
Creative
Competent and motivated teachers
Students Love Technology and its use in their learning process.

Technology helps to collaborate for learning and teaching.

Technology Makes Real-time Communication Possible.

Learn Online from Professional Development.

4 Real-World Experts for Students and Teachers.

Makes Life easier for Students and Teachers.

Can help in making the Learning Process Fun.

Technology helps Teachers to encourage students for homework.

Technology can save money in the long run.
Education & Technology

Students through the ages #1

The human desire to be taught new skills has never changed, yet the way it is relayed to students has markedly evolved through time. Here's a potted history of how the people have been educated throughout the years.

50th – 40th Century BC

Technology:
- Sharp stones to carve drawings into cave walls
- Paints created from powdered minerals, animal blood and fat
- Stone knives and flint spearheads for practical tests in the field

Caveman 100%

Every member of a cavemen population is a hunter-gatherer.

Oral ed.
Skills such as cooking, hunting, tool-making and survival are taught between families by word of mouth, from generation to generation.

Music
5th – 4th Century BC
Ancient Greece
Technology:
- Wooden stylus on a waxed tablet
- Abacus

Costly
Most schooling was private, aside from two years of military training for men.

Sophists
Richest students returned to study with intellectuals, learning rhetoric, logic, geography, natural history and maths.

a²+b²=c²
Ancient Greeks are believed to be the inventors of mathematics due to their understanding of theoretical discipline.

11th – 15th Century AD
England
Technology:
- Extremely expensive books
- Bone/ivory stylus on wooden tablets with green/black wax coating
- Abacus

Male dominated
Women from noble families were taught at home, but only on how to maintain the household for their prospective partners.

14 & 15 yr olds
Some scholars would attend university in major cities around Europe. The UK’s first university, Oxford, was created in 1096. Cambridge followed in 1209.

Poor digs
Student accommodation was very basic. Fees were not always paid, teaching rooms or bedrooms; colleges did not have windows until the 1800s.

1800 – 1900
Victorian
Technology:
- Mechanical calculator became commercially successful in 1821.
- The first commercially produced typewriter became available in 1870.
- Ink wells and steel-nibbed pens for writing
- Blackboard and chalk

90%+
Most children received some form of schooling during the 1800s, though it would not be free until 1881.

Mandatory
Attending school became necessary for all children by 1880, up to the age of ten. This was raised to 12 in 1899.

Equality
Girls were finally given the same basic education opportunities. Girton College was established as the first university college for women in 1870.

1950s – 1970s
Mid 20th Century
Technology:
- First vacuum tube-based computer introduced in 1945
- Integrated circuits popularized
- Microprocessors and calculators led computing boom

Uni boom
A government report recommended the expansion of universities to boost economic growth around the UK. Public grants offered to 70% of students.

1 in 20
One in 20 people found themselves in full-time higher education – this equated to around 100,000 students.
**2000s**

Technology:
- Four out of five students own laptops; others use desktop PCs and tablets
- Internet-based study from home on cloud networks
- Mobile platforms supported, utilising phones

**Today**

1.96m
Nearly two million are in university, with 45% of young people going. 49% of women are in higher education, as are 38% of men.

600,000+
Before the fee increase, a record number of hopefuls applied to start university in 2011.

300+
Over 300 universities or accredited institutions exist in the UK, offering all manner of vocations - even golf management and surf science.

---

**The future of learning equation**

\[
\text{The Future of Learning} = \begin{cases} \text{Skills + Content + Training} \\
\text{Self-learning} \end{cases} \times \text{Speed}
\]

HEIs can address the curriculum issue by complementing traditional degrees with badges and certifications from employers.
Lifelong Learning.
Endless Possibilities.

**Learn new skills**

Prepare yourself for the future of work, or your favourite hobby.

**Start learning, the social way**

Every course you complete will provide you with new skills, inspirations, and connect you to more and more people that share your interests.

---

**Future of Work**

Learn, Unlearn & Relearn

Businesses and educators know they need to prepare people for very different jobs in the future of work.

What’s needed are:

- skills identification and curriculum change, and
- **digitally** driven modes of delivery
- to prepare people for what comes next.

Students will need to point themselves in **multiple career directions**
Online primary and secondary supplemental education will be driven by the increased acceptance of the online channel among the target customers and increased internet penetration in tier 2 cities and beyond.

Test preparation will be the fastest growing category in online education for the next five years. This growth will be an outcome of high adoption of online channel amongst the students and an increase in the number of competitive exam aspirants.

Online higher education will also witness considerable growth and continue to aid distance learning programs.

Skill development and enhancement requirements for the working population will lead to growth in the reskilling and online certifications market.
Activity/Lab Assessment Case Study Data Set Diagram/Illustration Simulation Teaching/Learning Strategy

Technological Trends
- Artificial Intelligence
- Next-Generation Digital Learning Environment
- Analytics and Privacy Questions

Higher Education Trends
- Changes in Student Population
- Alternative Pathways to Education
- Online Education

Economic Trends
- Cost of Higher Education
- Future of Work and Skills
- Climate Change

Political Trends
- Decrease in Higher Education Funding
- Value of Higher Education
- Political Polarization

OER Repositories > Open Textbooks > Books
Open Courseware > Open Access Journals Subject-Specific
Digital Media
KPMG Industry – Academic Institution partnership

Story board : TCS-BHEL-JAPAN
Why digital gaming, simulations, and social networking?
Current knowledgebase

What we know, what we believe -- and what we don’t

What is role of technology
In shift from informational to transformational?

STUDENTS SHOULD BE ABLE TO TELL US WHAT THEY ARE LEARNING, NOT WHAT APP THEY ARE USING

Technologies don’t just help us teach the old stuff in new ways – they can also help us teach new stuff in new ways

TBLR
is an acronym for Technology-Based Learning and Research

GAMES AND GAMIFICATION
MULTI-DEVICE LEARNING
Give students tools to succeed in life

Give students tools to make good decisions
Why is Open Education important?

• Education is an essential tool for individuals and society to solve the challenges of the present and seize the opportunities of the future.

• However, the current provision of education is limited by educational institutions’ capacity, consequently, this resource is available to the few, not the many.

• The digital revolution offers a potential solution to these limitations, giving a global audience unprecedented access to free, open and high-quality educational resources.
Why is Open Education R important?

People want to learn. By providing free and open access to education and knowledge, people can fulfill this desire. Students can get additional information, viewpoints and materials to help them succeed. Workers can learn something that will help them on the job. Faculty can exchange material and draw on resources from all around the world. Researchers can share data and develop new networks. Teachers can find new ways to help students learn. People can connect with others they wouldn’t otherwise meet to share information and ideas.

Materials can be translated, mixed together, broken apart and openly shared again, increasing access and allowing new approaches.

Anyone can access educational materials, scholarly articles, and supportive learning communities anytime they want to. Education is available, accessible, modifiable and free.

Federated Search Engine & Remote login

Allows users to quickly identify articles that are most relevant to their needs. It also blends e-journals, e-databases, e-books and all other electronic repositories. RemoteXs is a software service through which one can access the scholarly content subscribed by the Library from a location other than the Institute campuses.
Government (Supported) Initiatives

- NDLI (National Digital Library of India)
- NIRF Ranking
- eSS
- Shodhganga
- SWAYAM
- MOOCs
- NPTEL
- e-PG Pathshala
- INDIAN RESEARCH INFORMATION NETWORK SYSTEM (IRINS)
OpenCourseWare

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.

MIT OpenCourseWare makes the materials used in the teaching of almost all of MIT’s subjects available on the Web, free of charge. With more than 2,200 courses available, OCW is delivering on the promise of open sharing of knowledge.

http://ocw.mit.edu
What is EnablingOpenScholarship

EnablingOpenScholarship (EOS) is an organisation for universities and research institutions worldwide. The organisation is both an advocacy and coordinating body, working with researchers to ensure open access and adoption of Open Scholarship practices, including open access to research outputs.

The aim of EOS is to foster the opening up of scholarship and research that we are now seeing through the growing open access, open education, open science and open innovation movements. There, and elsewhere, open approaches to scholarship are changing the way research and learning are done and there are profound implications for universities and research institutions. EOS has been established to help guide developments and to assist others in understanding the issues and their implications.

Who are we & why this website?

News

31/01/2013 - UK Department of Business launches Open Access

The UK Government’s Department of Business, Innovation & Skills is launching a consultation on developing the UK government’s Open Access policy. Written submissions are welcome. The deadline is 7 February.

11/01/2013 - UK House of Lords enquiry on Open Access

The UK’s House of Lords (upper chamber of Parliament)’s Science & Technology Committee is conducting an enquiry into Open Access. Written submissions are welcome. The deadline is 16 January.

Open Data - An Introduction

“Today we find ourselves in the midst of an open data revolution”

What is Open Data?

“Open data is data that can be freely used, reused and redistributed by anyone – subject only, at most, to the requirement to attribute and share alike.” - OpenDefinition.org

The Open Definition gives full details on the requirements for ‘open’ data and content. Key features are:

Availability and Access: the data must be available as a whole and at no more than a reasonable reproduction cost, preferably by downloading over the internet. The data must also be accessible in a convenient and machine-readable format.

Reuse and Redistribution: the data must be provided under terms that permit reuse and redistribution including the intermixing with other datasets. The data must be machine-readable.

Universal Participation: everyone must be able to use, reuse and redistribute – there should be no discrimination against bodies of endeavour or against persons or groups. For example, ‘non-commercial’ restrictions that would prevent ‘commercial’ use, or restrictions of use for certain purposes (e.g. only in education), are not allowed.

Read the full Open Definition

Open Data: How We Got Here, and Where We’re Going. From the LIFT 2012 conference.
1. **Artificial Intelligence**: From kindergarten school to graduate school, one of the key ways artificial intelligence will impact education is through the application of greater levels of individualized learning.

2. **Virtual Reality**: In the picture students are taking their lecture through “Virtual Reality”. Education is another sector that chose virtual reality for learning purposes. The advantage it brings in is that it enables large groups of students to interact with each other as well as within a three dimensional environment.
3. The (M-Learning): In the past years, companies have recognized that the learning of education through mobile is increasing at an alarming rate. For now the trend of using computers is changing to mobile phones. Mostly people use mobile phones for internet rather than computers. Traffic of mobile users has increased twice compared to computers and that is why mobile app development companies are developing learning apps for the education sector which eventually contributes in an increased user engagement level.

4. Tablet and Laptops: Institutions are changing their teaching tools into more of tech ones rather than the conventional teaching methods, like laptops and tablets rather than books. Using blackboards for teaching purposes has been the part of the past now. Conventional ways of teaching had higher costs than the methods used in the current era. New technological methods have reduced the high cost that once occurred. A big thank to the technology that it has helped in spreading education in the majority of households.

1. Flipped Learning
Flipped Learning is a form of blended learning where students learn their lessons at home by watching video lectures and studying content online, and then doing their homework in class. Basically instead of learning directly from the teacher students learn from each other through a process of small groups using critical problem solving.

2. Remote Learning
This model allows students who can't make it to school still attend virtually. They attend class through video and access content online. Other technologies can also be used including video conferencing, class forums, pre-recorded videos, social media, and email.
3. Gamification
Gamification is the concept of applying game-design thinking to different classroom tasks to make them more fun and engaging. The idea is to use the typical game system of providing challenges, rewarding winners, then providing harder challenges with equally bigger rewards.

4. Mind Mapping
Mind maps make learning interactive and multi-dimensional instead of unidirectional and passive. It's graphic and visual, using circled ideas that are linked together with lines, the same way the human mind works. This makes it easier for students to understand and recall information. By using software like Mindmeister or Brainstormer, you can engage with your students and allow them to bounce ideas off each other.

5. Digital Textbooks
You might think it would cost more to provide tablets for every student in your school but think of how many textbooks you are saving every year. Textbooks are getting more expensive and they are usually used for seven years before a new edition comes out.

6. Big Data
Potentially the most important trend on this list, "Big-Data" has the remarkable flexibility and precision to change how we teach and learn. Big data gives you real-time information that can be applied to your classroom immediately. It also can help your students by allowing you to focus on the areas they actually need help with. In the connected and mobile age we live in data has become the low-hanging fruit all education leaders should be leveraging to get the most out of new classroom technology.
7. Social Media
Social media is usually considered a huge distraction when it comes to the classroom. From Facebook to YouTube and Twitter many educators are fearful of its use, but this is a short-sided view. With the right strategy in place and the right wireless infrastructure social media can be a very useful and powerful tool for both students and teachers.

Online Labs (OLabs) for school experiments

- M-Learning enhancements to framework to support OLabs on Android tablets
- Enhancing OLabs phase 1 experiments for deployment on Android
- Enhance the framework for multi-lingual support
- Translate content to Hindi, Malayalam, Marathi
- Extend OLabs for Class 11 and Class 12 (Physics, Chemistry, Biology, Maths)
- Extend OLabs for Class 9, 10 (Maths, Biology, English)

Development of Personalised and Performance based E-Learning tool for existing E-resources

Online Assessment and Evaluation System (OAES) for National Level Certification Examinations,

ICT based Framework to enhance the teaching and learning experience in large Classroom
5. Social Media at Institutions: Social Media is playing a vital role in the educational sector as well, in different universities, colleges and international school students are using their social media platforms to connect with their friends for group meeting, social get-together and the Meetups.

6. Learning Through Smart Board: The smart board provides the facility for learners to participate in the instructional process. It gives the platform for students to understand the subject through writing, teaching and drawing. Every student has a facility to participate in the discussion via tablets and notebooks. Makes it easier and fun to learn more stuff smartly.

7. Cloud Based Technology in Education: There are spots that arise in which a student cannot go into a classroom or attend normal classes. In these situations, cloud-based classrooms can be ideal. These can include basic text lessons, or can be as advanced as to include video lessons or even live chat sessions with the teacher via instant messenger or video messaging programs like Skype.

8. MOOCs (Massive Open Online Course): MOOCs is a platform where every student can discover a free online course through internet for years, although the quality and quantity of courses changed day by day. It has changed the face of education. MOOCs can be considered as a term or word related to the scalability of open and online education.
9. Use of Videos in Education: Video is another instrument which is used for the recent year. Evan’s says 46 percent teachers are using video in the classroom. One-third of pupils are accessing online video through their own initiative to help with their homework.
Screenshots taken during the webinar

Presentation by Dr. K. Elavazhagan, Chief Guest