

## NUS Technology Enhanced Learning Initiatives

### 2009

#### BuzzEd Day

To further reach out to teaching faculty on the educational technologies available at NUS and how it can impact their teaching, an education technology awareness day called BuzzEd day was initiated and launched on 5th January 2009 at University Hall. The following topics were presented on the first inaugural BuzzEd day.

Time	Title	Speaker(s)
0930	Welcome message/Opening Address	Ravi Chandran, <i>CIT Director</i>
1000	Web 2.0 tools that engage and educate students	N. Sivasothi, <i>Biological Sciences</i>
1030	Centra for online labs & classrooms	Chris Ewan, <i>SABA</i> & Clifford Lew,
1130	Plagiarism Prevention : Setting a Level Playing Field For	LimChing, <i>Turnitin</i>
1200	Creative Commons in Education	Giorgos Cheliotis, <i>Dept. of Communications &amp; New Media</i>
1330	Second Life in NUS	John Yap, <i>Computer Centre</i>
1400	Microsoft Future Schools	Lee Boon Keng, <i>CGS</i>
1500	Google Apps in Education	Zach Tan, <i>Google</i>
1530	Mindmapping for teaching	Chua Ai Lin, <i>Dept of History</i>
1600	Video as Mediator of Learning	Manuel Gamboa, <i>CIT</i>

#### Special Mention of NUS Global Classroom in 'System Integration Asia' Magazine.

NUS Global Classroom was highlighted in the January 2009 issue of the magazine, System Integration Asia, for the innovative use of technologies to enhance the distance-learning programmes that are being conducted in the classroom.

#### Microsoft Case Study on NexUS

A Microsoft case study on Nexus titled 'NUS pioneers student-centric learning with Nexus open source Web 2.0 platform' was published in May 2009. The case study highlights that NUS is the first institution of higher learning to use Web 2.0 to consolidate learning resources for students in a single place.

#### IVLE Secure Browser Developed (Phase 1)

CIT has written an Internet Explorer look-alike that will facilitate the running of secure assessments from IVLE. This secure browser will stop back/forward navigation, URL typing, go into full-screen mode when launched, no menu options, no printing, no right-click, no exit from program, clear cache and files on password exit and no viewing of HTML source. Option to control the program will only be made available from a server. For Phase II, the browser will stop disk saving and ensure access is from a secure pipe. Phase II expected to be completed by the end of 2009.

#### Contingency Plan for Flu Pandemic

In May 2009, CIT published a contingency plan to handle flu pandemic if the alert level is raised beyond yellow. The plan focuses on CIT's internal response and how it will facilitate NUS to conduct lectures and tutorials in the event of a campus shutdown.

## 2009

### ISO 9001:2008 Certification

CIT was audited and certified for ISO 9001: 2008 Quality Management System in June 2009. Services run by CIT that were certified for ISO were the conferencing services, webcast services, courseware development, system support (non-IVLE) and video production services. Certification ensures CIT maintains and constantly improves its level of service and all workflows are fully documented.

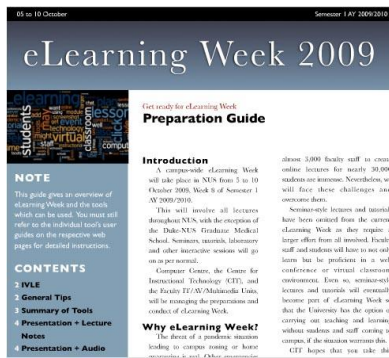
### IVLE10

CIT launched IVLE (code name IVLE10) in July 20th six months ahead of schedule. This new version was a complete re-coding of IVLE. CIT reviewed and improved all programs workflows and removed redundant code ensuring IVLE's performance is a lot faster and easier to use. AJAX was also incorporated into IVLE10.

### Interactive Map of NUS

OED, CRISP and CIT have collaborated with Gothere.sg to provide an interactive map of NUS. Find out about the map features on the Gothere.sg blog, and [start exploring the NUS campus](#).

### Campus-Wide E Learning Week



CIT successfully supported campus-wide e-learning week that was held from 4<sup>th</sup> to 10<sup>th</sup> October 2009. All lectures were conducted online and all faculties were involved with the exception of Duke-NUS Graduate School of Medicine. About 1,500 modules were affected.

Lecturers used IVLE, webcast, screencast, breeze lectures to replace their face-to-face lectures during e-learning week.

### IVLE Integrated to ISIS

IVLE was integrated to the Students Information System (SIS) on November 2009. SIS is a software system that consolidates NUS' Undergraduate, Graduate and Non-Graduating student systems into a single integrated system. SIS facilitates the integration of key activities from admission, module registration, student financials and their progression to graduation.

## 2010

### questionSMS

<http://qsms.nus.edu.sg>

questionSMS is a service that enables you to receive questions and feedback during your lectures and seminars on a web browser, without interrupting the flow of your lecture or presentation. All students need to do is to send an SMS to ask a question. Simple polls can be created using questionSMS. This service has now been extended to support wifi and renamed PeerQuestions in 2015.

### New Web-Based Interface for Course Website (K:\Drive)

CIT launched a web-based interface for managing files, folders and access to a faculty's course website called the K:\ drive. Faculty can access their K:\drive from home through this web interface.

2010

### School of Business E-Learning Week

CIT supported the [NUS Business School's eLearning Week](#) from 8 to 13 March 2010 (Week 8). During this week, lectures, tutorials and seminars for undergraduate modules was conducted online. During e-learning week, 27 lectures, 214 tutorials and 196 sectional teaching sessions were conducted online.

### 1<sup>st</sup> Academic Readers Workshop

CIT conducted its first Commencement **Academic Readers Workshop** on 17<sup>th</sup> and 21<sup>st</sup> June 2010. This workshop is for academic staff who will be readers for Commencement 2010.

### NUS iTunes U

Computer Centre launched NUS iTunes service. NUS is the first university in Singapore and South Asia to join the iTunes U platform, along with other top universities. NUS shares interesting content such as videos of public lectures by distinguished speakers; a youth forum; research achievements and publications; as well as information on student life at NUS. To access NUS on iTunes U, visit <http://itunesu.nus.edu.sg>. NUS content that are available on iTunes U include Life at NUS, Learning at NUS and Research at NUS. CIT is supporting this service.



### Faculty of Arts and Social Sciences e-learning Week.

The Faculty of Arts & Social Sciences participated in eLearning Week from 04 to 08 October 2010. During the week, more than 291 academic staff conducted over 255 modules online. This amounted to 1,545 lectures, tutorials and seminars in total.

### IVLE Microsoft Office Plugin

CIT introduces the IVLE Microsoft Office plugin. The plugin allows you to upload Word, PowerPoint and Excel files directly to any IVLE workbin. (Windows only.)

### Upholding Academic and Research Integrity Talk

CIT hosted a talk titled Upholding Academic and Research Integrity. The presenter, Dr John Barrie, is the founder and creator of [Turnitin](#), a leading plagiarism prevention tool. The event took place on Thursday 18 November at 2.30 p.m. at the CIT Auditorium, Level 2 of Computer Centre.

## 2011

### **BuzzEd Day**

To further reach out to teaching faculty on the educational technologies available at NUS and how it can impact their teaching, BuzzEd day was launched on 4th January 2011 at CIT Auditorium. About 80 participants attended BuzzEd 2011.



### **NUS IVLE iPhone App - Now available on the iTunes App Store**

The [NUS IVLE iPhone App](#) is now available on the iTunes App Store. The app makes interacting with IVLE easier by providing access to NUS modules. Using the app, student can view announcements, workbin files, access discussion forum posts and find out about the latest student events. The NUS IVLE iPhone App also informs what's new in modules for the past 5 days.

### **NUS IVLE is also available for Windows Phone 7.**

### **Lunch & Learn Webinars - March 2011**

The Centre for Instructional Technology (CIT) has launched [Lunch & Learn](#), a webinar series aimed at the NUS community. Talks from internal and external speakers cover a range of interesting and useful topics on teaching and learning. The series will be held entirely online.

## 2011

### **iCreate Mobility Challenge 2011.**

CIT, Computer Centre and NUS Library launched the iCreate Mobility Challenge to invite students to come up with working ideas to enhance student's education experience and campus life on mobile platforms. These ideas may include eLearning, student/library services or geo-location related apps - anything related to enriching the students' experience at NUS. Winning entries receive prominent recognition and great prizes.

### **Teaching Staff iPad Initiative**

The Teaching Staff iPad Loan Scheme aims to get iPads into the hands of educators at NUS. The aim is to allow the NUS teaching community to experiment with the use of the iPad in teaching and to immerse themselves in using this device. 30 iPads2 were made available to teaching staff.

(<http://blog.nus.edu.sg/thetablet/>).

### **Faculty of Science e-learning Week.**

The Faculty of Science e-learning week was conducted on 3<sup>rd</sup> to the 7<sup>th</sup> of October 2011.

## 2012

### **CIT at University Town (UT)**

CIT seconded two staff to support all UT teaching facilities and provide audio-video support for UT teaching activities. CIT was instrumental in the design of all the teaching and collaborative spaces at University Town.

### **Active Learning Classroom**

CIT initiated the design and development of 10 Active Learning Seminar Rooms for Faculty of Science, Faculty of Engineering, School of Design and Environment, Faculty of Law and Faculty of Arts and Social Sciences. List of active learning classroom <https://wiki.nus.edu.sg/display/cit/Active+Learning+Rooms>

## 2013

### **NUS on Coursera**

NUS signs up with Coursera and CIT is tasked to begin developing 3 MOOC, 8 RNS Men iBLOCs (internal blended learning courses) and 1 iMOOC for Jan 2014 launch.

MOOC – Massive open online courses

iMOOC – Internal (NUS-only) massive open online courses

iBLOCs – Internal blended learning online courses, also known as flipped classrooms.

### **University Town (UT) Web Lecture in HD format**

All web lecture recordings at UT are in HD format.

### **MediaSpace – Video Management**

CIT launches a cloud-based Video Management System using Kaltura. This service provides options for NUS by providing a YouTube interface for departments and project teams to upload their multimedia assets permanently onto this repository.

## 2014

### **Learning Mobile Apps**

CIT launches two Android-based learning apps for students on the NUS mobile website (m.nus.edu.sg).

- **LecturePad**  
LecturePad allows you to take notes and synchronize it with NUS lecture videos while you are watching the videos. Later, clicking on a note will jump to the relevant section in the video.
- **myFolio**  
myFolio is a collection of your academic, social and community involvement. You update your personal particulars and important events that shaped your life. Update good written assignments, which are indicative of your learning and demonstrate that you have reached a certain level of knowledge in your field of work. At the end of your studies, you can access this important information and highlight them on online resumes. which you can send to potential employers

2014

### Self Recording Rooms at FoS, FASS and FoE



Three self recording rooms launched and supported by CIT at the Faculties of Science, Arts and Social Sciences and Engineering for the development of iBLOCs and iMOOCs. **NUS to-date has 5 self-recording room.**

### Refurbishment of Seminar Rooms into Active Learning Classrooms

CIT is project managing the refurbishment of 35 seminar rooms into active learning classrooms. This Phase II project initiated by Provost Office was to support NUS' technology enhanced learning initiatives. Completion date is 2<sup>nd</sup> quarter 2016. CIT is assisting in the design, technology and project management for these active learning classrooms. In total by 2<sup>nd</sup> quarter 2016, NUS will have a total of 50 active learning seminar rooms.

<https://wiki.nus.edu.sg/display/cit/Active+Learning+Rooms>

### BYOD e-Assessments with ExamSoft

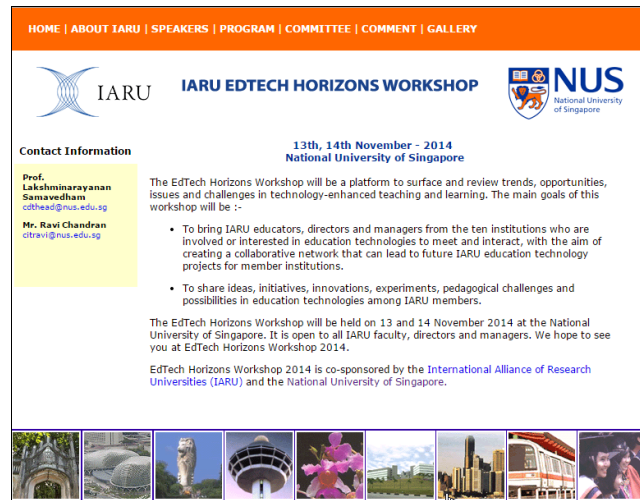
On 22<sup>nd</sup> Nov 2014, 600 students from LSM 1301 (General Biology) took an online open-book examination on their own laptops using an e-assessment software called Examsoft. This 2-hour exam was held at University Town.



2014

### IARU EdTech Horizons Workshop

CIT and CDTL jointly co-organised and hosted the 1<sup>st</sup> inaugural IARU EdTech Horizons Workshop. This workshop was held on the 13<sup>th</sup> and 14<sup>th</sup> of November 2014 at NUS. Besides NUS, Universities participating included ETH Zurich, PKU, Berkeley, UCPH, Yale and Yale-NUS.



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IARU IARU EDTECH HORIZONS WORKSHOP NUS National University of Singapore

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13th, 14th November - 2014  
National University of Singapore

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The EdTech Horizons Workshop will be a platform to surface and review trends, opportunities, issues and challenges in technology-enhanced teaching and learning. The main goals of this workshop will be :-

- To bring IARU educators, directors and managers from the ten institutions who are involved or interested in education technologies to meet and interact, with the aim of creating a collaborative network that can lead to future IARU education technology projects for member institutions.
- To share ideas, initiatives, innovations, experiments, pedagogical challenges and possibilities in education technologies among IARU members.

The EdTech Horizons Workshop will be held on 13 and 14 November 2014 at the National University of Singapore. It is open to all IARU faculty, directors and managers. We hope to see you at EdTech Horizons Workshop 2014.

EdTech Horizons Workshop 2014 is co-sponsored by the [International Alliance of Research Universities \(IARU\)](#) and the National University of Singapore.



[iaru.cit.nus.edu.sg](http://iaru.cit.nus.edu.sg)

The outcomes from this workshop were :

1. Having similar IARU EdTech Horizon Workshops annually or on a biennial basis will build on the momentum gained at this inaugural event. It is also possible to share experiences gained through educational technology innovations and implementations at IARU through an online platform.
2.
  - a) It may be a good idea to explore the Distributed Open Collaborative Course (DOCC) model by offering joint courses among IARU institutions. There was interest in leveraging on Yale's DOCC model by developing an IARU DOCC on faculty development, for example. Such an effort will also spawn education research enriched by learning analytics.
  - b) The DOCC can be used as a means of collaborating, sharing resources and information among IARU members.
  - c) Support may be sought from IARU to fund and support interested faculty (who are keen on developing and learning more on how to build a DOCC) to the 3-day immersive summer workshop organized by Yale in 2015.
3. Creating a repository of open source development software and services can benefit IARU.