

Integrated Virtual Learning Environment



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Agenda

- Background
- Overview
- Key Features
- Demonstration
- * Q & A

Background

NUS Stance

Information Technology continues to be an enabler/facilitator to improve teaching and learning processes, primarily in the context of an on-campus education scenario

Objectives

Support and supplement courses in all major academic areas

- o Not to replace 'traditional' lectures
- Alternatives avenues for peer-peer interaction and communication
- Promote independent learning and reduce administrative teaching load
- Suit university size, institutional culture and integrate with existing network, student admin. and legacy systems

Background

- Started with launch of NUS IT Strategic Plan in early 1998 for the need for an excellent IT infrastructure to support teaching and learning
- Systems at that time were unable to meet all of the desired criteria. Lack of suitable off-the-shelf solution lead to an inhouse developed platform, thus the birth of IVLE
- Project started in June 1998 with delivery of IVLE Version 1.0 in Nov 1998 and **Version 5.0** in Dec 2000



Milestones

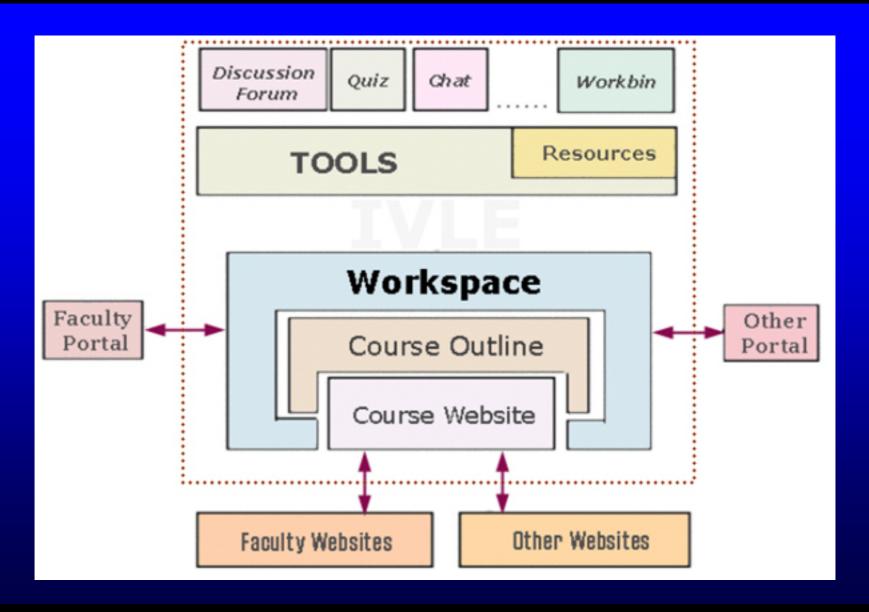


- Accorded the E-nnovator's Award, 2000 (Open Category)
- Showcased at Comdex USA, 2000

What is IVLE?

- An enterprise wide Integrated Virtual Learning Environment
- An E-learning management system that supports Staff-Student and Student-Student interaction
- Enables collaborative teaching and learning over the Internet through a rich set of easy-to-use tools

How does IVLE work?



Key Features

- 100% web-based courseware management
- Dual mode support
 - Staff mode
 - Student mode
- Single sign-on
- Supports both asynchronous & synchronous T&L
- Web-based and designed to meet diverse T&L pedagogical styles. New components can be added as needed
- Multilingual Support
- Web access statistics analysis

Key Features



IVLE Workspace



Staff Workspace

Student Workspace



IVLE Tools

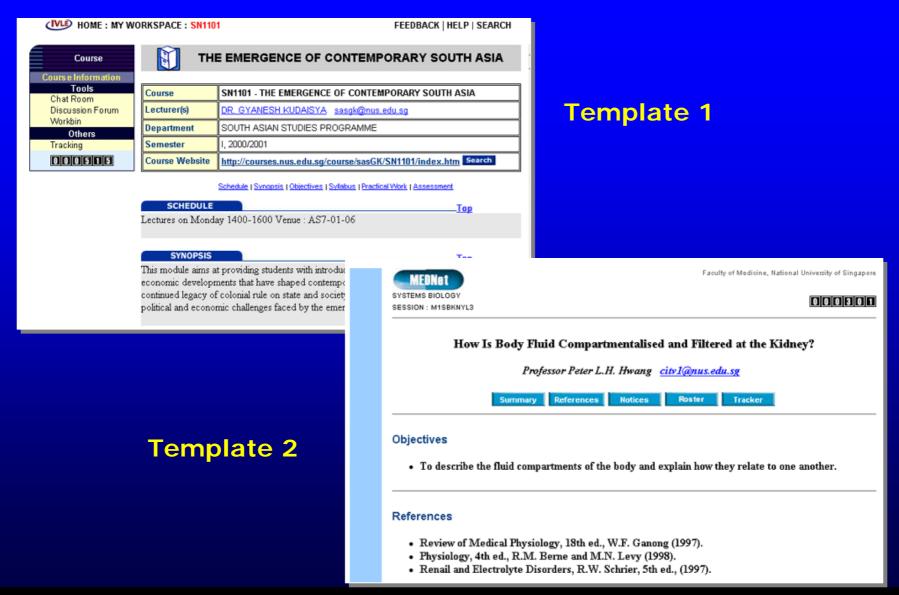
Staff Tools



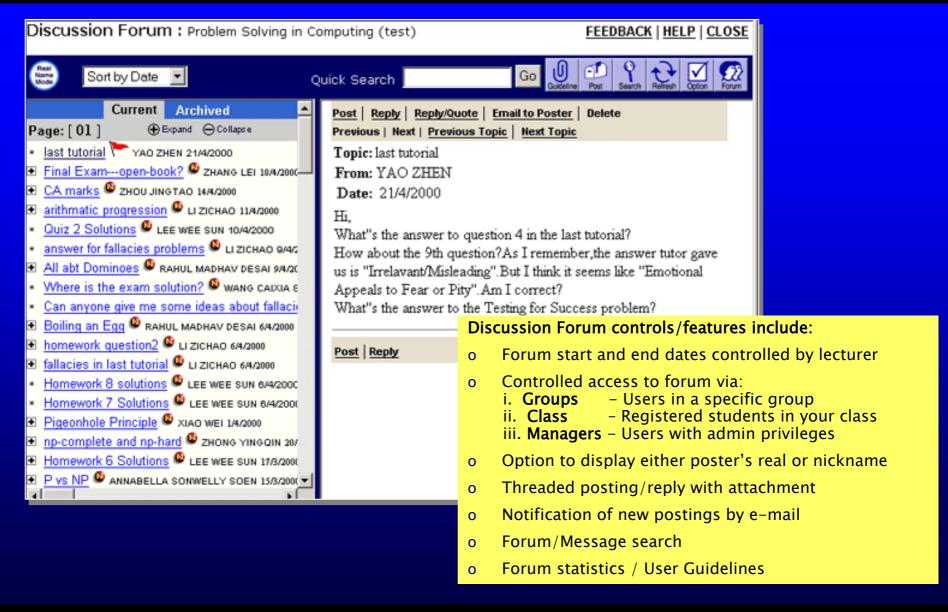
Student Tools



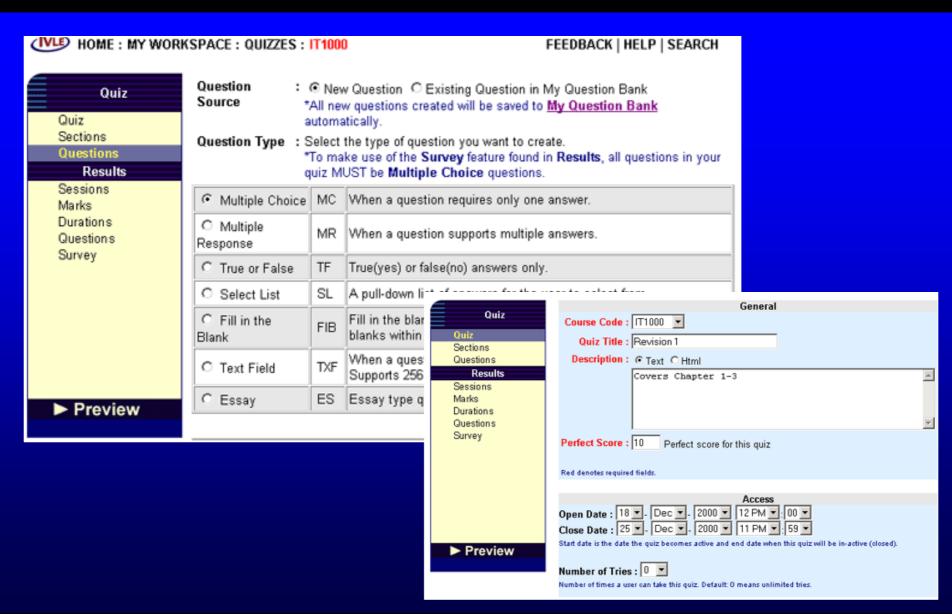
Course Outline



Discussion Forum



Quiz



Workbin

 A file repository where both staff and student can upload or download files



Preview



Files

Folder Name: Lecture Notes

Workbin features include:

- o Workbin open and close date controlled by lecturer
- o Restricted access to workbin via:
 - i. **Groups** Users in a specific group
 - ii. Class Registered students in your class
 - iii. Managers Users with admin privileges
- Limit uploaded file size
- o Set up new directories within a workbin
- Notification of new file uploaded
- Workbin upload/download statistics

☐ Select All	File Name	Description	Sender	Date 🖊	Size
	lec02-6.pdf 🟭		SUN JINLIE	7/3/2001 11:15:00 AM	168KB
	lec01-6.pdf 🟭			7/3/2001 11:14:00 AM	264KB
	lec06-6.pdf 🟭		SUN JINLIE	7/3/2001 11:13:00 AM	914KB
	lec03-6.pdf 🚛		SUN JINLIE	7/3/2001 11:13:00 AM	63KB

Upload

Change Description

Delete

Class Roster

Course	Class Roster : AS3217						
Course Information Tools		E-mail to Class					
Announcement Chat Room Discussion Forum Archived Lectures Multimedia	ANG SOCK HONG fba70312@nus.edu.sg BEH SHU-SIENN,TARA snmha@pacific.net.sg CHENG CHYE HSERN get_lost@pacific.net.sg	AU YONG CHIU KUAN,BELINDA art80505@nus.edu.sg CHAN MANN HAR,JEANNIE jyve07@hotmail.com CHEW SHU WEN,CINDY chewhome@mbox2.singnet.com.sg CHU YEE MING calvinchu@pacific.net.sg					
Workbin Others	CHOO HUEI MIIN fba70340@nus.edu.sg						
Class Roster Tracking 0 0 0 8 3 2	CHUA PEI PEI fba70209@nus.edu.sg GROSSE SHAUN PHILIP art01361@nus.edu.sg	DEEPA D/O MOHANAN sci00492@nus.edu.sg GUNGADIN CHANDINI DEVI art91611@nus.edu.sg					
	HO KWOK SENG,ROBIN robin_hoks@hotmail.com KELVIN LAWRENCE	HO YIN DUAN art80781@nus.edu.sg KOH FONG YET					
	art00014@nus.edu.sg KUAN WEIHUI,LYDIA alecbld@pacific.net.sg	art81517@nus.edu.sg LEE MEIYU,CHARLENE liquid_poison@mail.com					
	LEE SWEE TECK art01471@nus.edu.sg ZHENESSE S. HEINEMANN art07362@nus.edu.sg	tim Boon CHONG fba70111@nus.edu.sg					
	21 student(s)						

Tracking



Tracking

000832

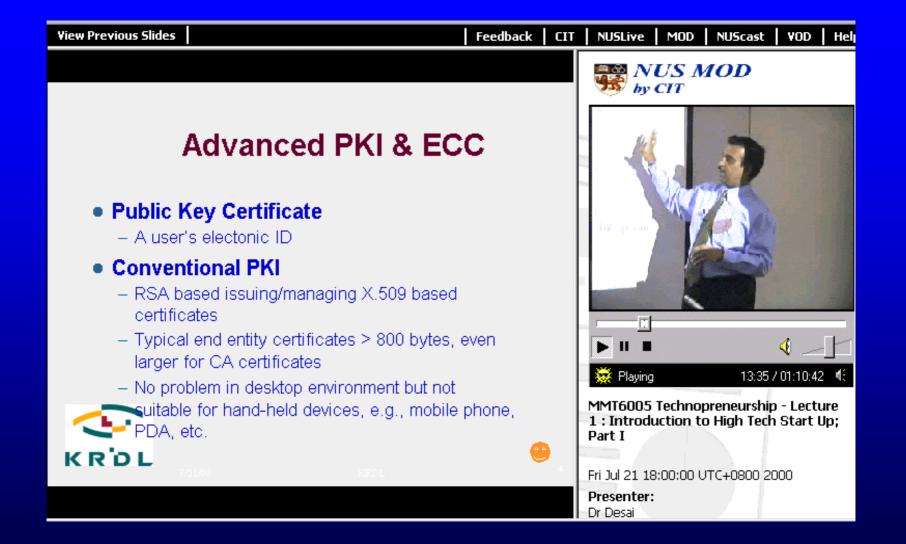
Course Tracking Report

Report Range: 04/01/2001 - 07/03/2001

Users Who Bookmarked This Course <u>Go</u>							
	User-ID	Name	Bookmark Date				
1	ART70537	FIONA WENSLAUS SILVA	19/01/2000				
2	ART80441	NG SU CHING	04/02/2001				
3	ART81211	CHAN MANN HAR JEANNIE	17/01/2001				
4	ART90145	LIM JOO LIN,JULIAN	11/01/2000				
5	CITLEWKH	LEW KOK HOE	18/01/2001				
6	CITTIUD	TIU AI KI@DAPHNE TIU	11/01/2001				
7	HISGKC	CLANCEY, GREGORY KEVIN	08/01/2001				

Top Authenticated Visitors (NUS Staff and Students) Go to						
	User-ID Name					
1	ASCILG	GORDON, IAN LEWIS	117			
2	FBA70071	POH SZE PENG	34			
3	ART00001	TANDRAYEN ANNE AUDREY GERALDINE	23			
4	ART80441	NG SU CHING	23			
5	ART07362	ZHENESSE S. HEINEMANN	18			
6	ART00743	SEAH KANGLIN.DIANA	17			

Live Lecture Broadcast



NUSCast: Network TV





	Sunday					
TIME	EVENT					
6.00 AM	BBC News					
6.30 AM	Holiday Guide To (R)					
7.00 AM	BBC News					
7.30 AM	Correspondent (R)					
8.00 AM	BBC News					
8.30 AM	Simpson □s World (R)					
9.00 AM	BBC News					
9.30 AM	Hardtalk (R)					
10.00 AM	BBC News					
10.30 AM	This Week (R)					
11.00 AM	BBC World News					
11.30 AM	India Business Report					
12.00 PM	BBC World News					

















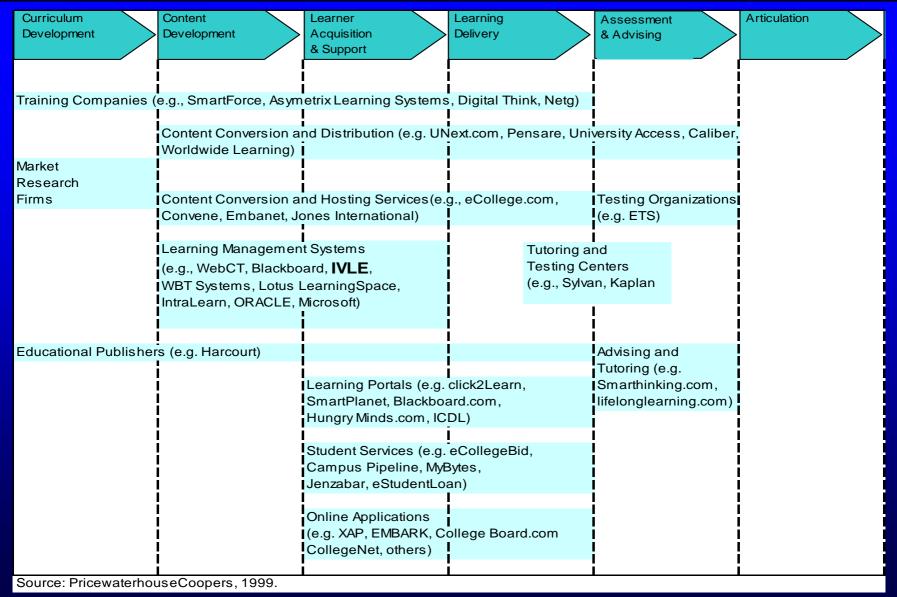
Acceptability & Pervasiveness

80% of the courses in NUS have an IVLE presence

Tools		Faculty													
10015	FAS	FBA	DEN	ENG	PGS	LAW	MED	СОМ	SDE	SCI	ОТН	ELC	HRM	SMA	TOTAL
Course Outline	423	208	37	288	2	41	618	39	147	176	45	18	4	17	2063
Course Website	227	155	29	209	0	25	582	33	93	147	26	7	2	10	1545
CWB Course Website	7	7	0	4	0	0	0	1	2	3	2	0	0	0	26
► Chat Room	26	9	1	10	0	0	0	4	32	8	11	1	0	1	103
Course Calendar	58	31	2	18	0	4	0	4	28	16	11	1	1	1	175
Course FAQ	10	3	0	4	0	0	0	4	5	1	6	0	0	0	33
Discussion Forum	97	71	3	86	0	12	9	37	71	58	17	3	1	1	466
■ Glossary	1	0	0	0	0	0	0	0	0	1	0	0	0	0	2
► Lesson Plan	19	10	2	1	0	1	0	3	17	5	9	0	0	0	67
▶ Media Channel	20	3	1	6	0	0	0	0	0	4	6	0	2	0	42
□ Quiz	7	3	0	7	0	0	2	48	8	12	8	0	0	1	96
■ Workbin	63	63	1	54	1	13	15	5	70	8	9	0	0	0	302

	LEGEND						
♦ FAS	Arts & Social Science	◆ FBA	Business Administration				
◆DEN	Dentistry	◆ENG	Engineering				
◆PGS	Graduate Schools	◆LAW	Law				
◆MED	Medicine	◆COM	School of Computing				
◆SDE	School of Design and Environment	◆SCI	Science				
◆OTH	Others	◆ELC	English Language Communication				
♦ HRM	Human Resource Management	♦ SMA	Singapore-MIT Alliance				

Learning Management Systems



OPEN IVLE



Overview

Background

Features

FAQ

Demo

Services

Support

Community

The Integrated Virtual Learning Environment (IVLE), launched in June 1998, is developed by Centre for Instructional Technology, National University of Singapore. IVLE is part of the NUS Global Campus Initiative to facilitate the use of Information Technology in teaching and learning.

IVLE is a learning management system designed to manage and support training and education over the Internet. It has a compilation of tools that allow teacherstudent communication and collaboration in a virtual learning environment. We wish to share this progress in instructional technology with other institutions that would be interested for a similar application. As such, the project, Open IVLE is developed.





Developed based on the Instructional Management System standard.

System Requirement

□ Hardware

- ❖ Pentium II 300 CPU
- 128MB Memory
- 100 MB Disk Space

■ Software

- Windows 2000 Server or NT Server 4.0
- IIS 4.0 + (free with NT Option Pack and windows 2000)
- ❖ MS SQLServer 7.0
- SoftArtisans SA-FileUp (commerical, US\$100)
- IVLE 4.0 Source Code & Installation Scripts (free under OpenIVLE Licence)



Demonstration

Question & Answer

Thank you for your attention