

TECHFOCUS

Classrooms go tech-smart

information in one manner to all

students. A wide range of such

educational software is available

for every subject imaginable and

teachers can use these effectively

multitude of software available

that are designed primarily for

them, such as time-table genera-

tors and other class management

software that help teachers to

record, analyze and summarize

attendance and student test

scores. Such software save time,

Educators can also use the

for their benefit.

NAHID AKHTER

S time progresses, methods of instruction L are being metamor phosed and updated continually. The days of 'Spare the Rod and Spoil the Child' are slowly vanishing and newer ways of instilling knowledge are being introduced in schools worldwide. Where only direct instruction and repetition were the chief means of learning, teachers are now using a variety of teaching aids to stimulate the various senses of the students.

Every student has a different learning capacity and each child learns better from a different set of senses. For example, some students learn better from stimulation through sound or rhythm, some through visual stimulation and others through touch.

To reach the most number of students, the teacher needs to create a variety of learning experiences. This can best be made possible through use of technology and multimedia in the classroom.

Today, technology has made it possible to access a sea of information through just a click of a button. The internet has opened vistas for an assortment of educational benefits. Students can use it to research on a given topic, share ideas, directly ask an expert on the topic, discuss it in online forums and finally put together a school project or a multi-media presentation.

The internet has also facilitated collaborative work among peers, whereby, students in a project group can mutually discuss what they want to put into their project and work together from their own individual homes. What's more, schools can use it to keep students and parents updated with the latest school events and PTA meetings, inform about any emergency holidays and even provide immediate results of any examination or test given through their website.

With the help of e-mail, teachers can post lecture notes to absentees or all the students in general, absentees can submit their projects or homework from home, and teachers and parents can use it to keep in touch with one another about their child's performance in class.

Scholastica in Dhaka has used this approach to allow the school to keep in touch with parents at all times. They have started an SMS service that keeps parents informed about important school announcements and provides other emergency notifications. They also maintain a database of email addresses of parents and use it to get in touch with them, even if they are not in



Smart Board

Dhaka Friday September 19, 2008

the country. Parents can also communicate with the school through email with their individual queries, complaints or suggestions. This way, parents can remain updated with their child's progress no matter where they are.

Besides the internet, there are numerous multimedia programs designed to meet the special needs of diverse learners. For example, a student learning English as a second language would benefit from a computer program where they could learn



the language at their own pace. ensure accuracy, make the They could spend as much time as needed on the computer, without feeling pressured to keep up with other students in the class. One class may consist of a range of students, each with a different preferred way of learning. One cannot expect all teachers to teach every student in their preferred way and pace, but a computer program or multimedia application may have the capabilities of doing so without taking additional time away from other students. By utilizing such programs, a single teacher can employ many more resources and methods within one classrooms, rather than teaching the

assessments more objective and fair and allow for flexible and easy changes. There are even software that can transform any text into fun classroom activities, like crosswords, jumbles, flashcards, pair-matching puzzles, and more.

Interactive White Boards are revolutionising the education sector today all over the world, and SMART Technology has pioneered in this revolution with their SMART Boards. The blackboard, chalk and eraser may become obsolete with this new technology that retrieves information, notes and lessons with a simple click. According to the official website of SMART technology (www.smarttech.com), a SMART Board is "an interactive whiteboard that connects to a computer and draws the power it needs from the computer.

The SMART Board driver automatically starts when the computer is turned on, and the interactive whiteboard becomes active once the driver is running. When (the SMART Board) connects a digital projector to your computer, you can project the responses are tallied, then discomputer image onto the SMART Board interactive whiteboard. The SMART Board driver converts contact with the interactive whiteboard into mouse clicks or digital ink. This feature enables you to use your finger as a mouse or write overtop of applications."

With the help of the SMART Board touch screen, teachers can make their lesson more interactive, allowing students to directly interact with the application on the Board. It has also been reported to enhance student concentration and participation in class. Since it is basically connected to a computer, it can do everything that a computer can, including accessing the internet and running multimedia applications. To top that, colored digital pens provided with the Board can be used to highlight, mark or write over. This makes it ideal for teaching maps or diagrams. Moreover, teachers can easily save the notes and markings that she had used



during her lecture and use them for later reference or to distribute them to the students at the end of her lecture.

Unfortunately, due to the high cost, very few educational or training institutions in Bangladesh have been found to use SMART Boards. However, if the cost is weighed against the teaching benefits, SMART Boards may prove to be quite worth it, especially in boosting the institution's reputation.

Interactive Personal Response Systems (PRS) are yet another wonder of technology for modern education. It includes a radio frequency (RF) remote for each student in the class, a central

receiver, whiteboarding software and assessment software, which tally student responses, record attendance, post test results and provide individual feedback. In this way, the PRS systems provide a direct wireless connection between the teacher and stu-

With it, the teacher displays or speaks prepared or ad hoc questions, students anonymously key in answers with their remote, and played on a projection screen or interactive whiteboard immedi-

The advantages of this system are manifold. It allows frequent questioning and feedback, which engages students more actively in the material being studied. This data can then be used to provide relevant in-class feedback, and to adjust instruction according to identified needs. Moreover, Students send their responses privately, so they are free to answer without feeling judged by peers.

The International School Dhaka (ISD) has used of the advantages of integrating technology into education through their Laptop programme. All students of Grades 9-12 are required to have a laptop at school everyday. Student laptops are configured by their IT Department for use with their wireless network so that students can access resources found on the school server and via the Internet during their regular lessons. Of course, such kind of technology becomes a breeding ground for plagiarism, but the school has ensured originality of student submissions by subscribing to Noodle Tools and Turn

The Noodle Tools software is designed to help students with online research and provides bibliographic citations. The software can be accesses by students from both school and home. Turnitin.com helps teachers to detect non-original work and plagiarism. Assignments submitted to Turnitin.com are compared with all other digital documents available on the Internet, including other student submissions.

Sadly, although private schools have started taking the initiative, the public schools of Bangladesh give little importance to technology or the use of computers. The whole world is making a transition into the age of information and if Bangladesh and its citizens do not want to be left behind, every effort should be made to inculcate computer skills among students in the public schools as well.

Australian company

AFP, Melbourne

website.

environment.

Web in 3D."

other apartments.

they have selected.

unveils 3D Internet tool

An Australian company on Thursday

launched a free tool it says offers web

browsers a world-first opportunity to view the Internet in three dimensions

its application allows users to turn any regular website into a 3D virtual environment, where an avatar represent-

ing them can walk around and meet other browsers viewing the same

previously only specialised websites

such as Second Life and World of Warcraft allowed users to enter a 3D

Founder Danny Stefanic said that

"ExitReality goes far beyond that,"

Browsers can use the tool to turn

their social networking pages on sites

such as Facebook and MySpace into a

virtual apartment, where photo-

graphs are displayed on the wall and

links to friends are "doors" leading to

Users can customise their flats by

"decorating" with 3D versions of

couches from stores such as Ikea or

downloading an e-jukebox to play music

video-sharing website YouTube cre-

ates a virtual cinema, where the

browser's avatar sits next to other

users also logged on to watch the clip

Similarly, using ExitReality on

clips stored on their personal page.

he said. "It allows you to view not just

one website but the entire World Wide

Melbourne-based ExitReality said

TECHNEWS

BASIS workshop on IT upgrade project held

IMRUL KAYES CHOWDHURY

ANGLADESH Association of Software & Information Services (BASIS) in collaboration with University of Bermen, Germany and Paris Chamber of Commerce and Industry organised the 'Final Dissemination Workshop on IT-Upgrade Project' at Windy Town of Bangladesh China Friendship Conference Center (BCFCC) on September 13.

The IT-Upgrade Project-"Know-how Transfer and Training in the area of software development and production" is co-financed by European Commission. The aim of the project is to upgrade the knowledge and capabilities of IT professionals for enhancement of quality and process management to meet the expectations and requirements of EU companies for outsourcing.

Under the project, 35 BASIS member companies were selected to participate in the training course. The training was given in three fields 'System Software (which includes Acquisition, Proposal, Contact; Development Process; Quality Assurance and Acceptance; Configuration Management and Delivery, Maintenance and After Sales)', 'Multimedia (which consists of Video Games Product Development Process; Games Designing and Prototyping; Games Technology and Production and Games Programming and Engines)' and 'Clustering'.

The participants of the project were trained by the trainers from Germany, France and BASIS.

At the occasion Feroz Ahmed, secretary, Ministry of Commerce was present as the chief guest. Among others Dr Stefan Frowein, ambassador, Commission of European

Reinhard, charge d'affaires, sector. Embassy of the Federal Republic of Germany, Sophie Clavelier-Khan, deputy trade commissioner, Economic Department, Embassy of France attended as special guests. Project Coordinator, 'IT-Upgrade Project' Dr Engineer Bibhuti Roy from University of Bermner, Germany, Dr Theis Wittig, Representative of the Paris Chamber of Commerce and Industries (CCIP), BASIS Secretary General Nahid

Ahmed were also present. While speaking at the event

Union in Bangladesh, Rolf pioneer role in boosting the

Dr Stefan Frowein, ambassador, Commission of European Union in Bangladesh said that EU is delighted to participate in this IT-Upgrade Project. He said EU will help boost Bangladesh's IT in rapidly growing business. He also said EU is committed to help Bangladesh in trade related technical assistance.

"I see huge potential in IT sector in Bangladesh as Bangladeshis are talented and professional," said Dr Engineer Bibhuti Roy.



Dr Theis Wittig speaks at the event

the chief guest said BASIS as the leading IT and ITES providing association, should take more proactive roles in should not wait until it comes. addressing the supply-side constraints particularly relating to human resources development. He also hoped that EU in future will continue to assist BASIS to make significant contribution to the development of Bangladesh's IT professionals and ultimately the expansion and strengthening of IT export. He also said although Bangladesh Government is trying its best to help boost IT sector, but it's the IT sector itself has to play the

Dr Theis Wittig suggested that Bangladesh should take up chances, be proactive and Bangladesh should let its potential clients know what it's capable of.

Rolf Reinhard, Sophie Clavelier-Khan and Nahid Ahmed also spoke on the occasion.

BASIS President Habibullah N Karim chaired the session and Project Director, IT-Upgrade Project TIM Nurul Kabir moderated the session.

Certificates were also distributed among the participants of these training pro-

WiMAX in spotlight

MAHDIN MAHBOOB

TE Corporation, one of the largest telecommu nications enterprise of China, organised a workshop titled 'WiMAX Journey in Bangladesh' at a local hotel in Dhaka recently. The workshop had different sessions including 'ZTE WiMAX Overview', 'WiMAX Business Model and case Study', 'ZTE WiMAX Endto-End solution', 'ZTE WiMAX Network Planning and Optimization Solution' and 'ZTE Engineering Introduction'.

In the event the speakers talked about ZTE's success stories in constructing WiMAX Networks in different countries of the world including USA,

ability to provide end-to-end WiMAX solutions and the many different technological advances it has made since it started Research & Development on WiMAX in

Today, ZTE boasts over 600 international patents related to WiMAX ranging from standard technologies, product implementations, testing methods to network deployment.

The company has different solution packages according to targeted usage, whether it is a small, medium or large scale office buildings or shopping malls, railway/ subway stations

China, Singapore, Libya, to single unit houses and Netherlands, Kazakhstan, etc. apartment complexes. A series They also spoke about ZTE's of base station types, the Macro, Micro, PICO, and Femto series are deployed according to intended usage.

ZTE Corporation has rich experience in professional training and with advanced training equipment, standard management and excellent trainers, the training network has covered all over the world, providing trainings on systems, maintenance and management for nearly 130,000 customers in over 90 countries.

In the workshop, different management and technical officials from the ZTE China and Bangladesh offices, BTRC officials and other industry people were present.

TECHNEWS

Intel rolls out computer chip with six brains

AFP, San Francisco

NTEL on Monday rolled out its first chip with six brains, unveiling a "multi-core" microprocessor that boosts ket. computing muscle while cutting back on electricity use.

The world's leading computer chip maker's new Xeon 7400 series microprocessor is tailored for businesses that want to boost server performance while conserving on space and energy.

7400 is part of an "incremental migration" toward chips with limitless numbers of "cores" that energy efficiency but the use seamlessly and efficiently share models," Kilroy said of the boon

demanding computer process-

Micro Devices have two-core and four-core chips on the mar-

percent more performance than its quad-core predecessor while using 10 percent less electric power, according to Intel enterprise group vice president Tom

Electricity and cooling expenses can account for nearly Intel executives say the Xeon half the cost of running company

computer servers. "It isn't just performance and

promised by increasingly powerful chips. "One of the major ones Intel and rival Advanced isvirtualization."

Multi-core chips are boons to computing trends including high-definition video viewing The six-core chip delivers 50 online; businesses offering services applications on the Internet; and single servers running many "virtual" machines.

"There is a realization that we will be able to bring things to market that weren't feasible four years ago," MySpace vice president of technical operations Richard Buckingham said while discussing the new chip's potential.



Founder Danny Stefanic of Melbourne-based ExitReality stands in front of a giant screen as the the company launches a free tool it says offers web browsers a world-first opportunity to view the Internet in three dimensions on September 18. ExitReality said its application allowed users to turn any regular website into a 3D virtual environment, where an avatar representing them can walk around and PHOTO: AFP meet other browsers viewing the same website.