



**About the  
flaw in  
IE7..**



**The  
Satyam  
Fiasco**



## The Internet Phone

**DEPARTMENT OF INFORMATION TECHNOLOGY**

**Dr.MAHALINGAM COLLEGE OF ENGINEERING AND TECHNOLOGY**

**UDUMALAI ROAD, POLLACHI-642 003, TAMILNADU, INDIA.**

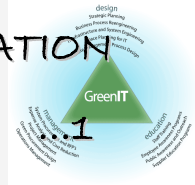
**VOLUME-1, APRIL 2009**



**INFO QUEST**

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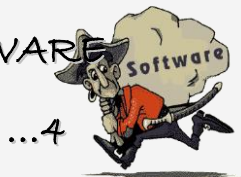


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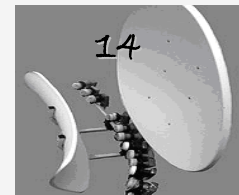
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# MESSAGE

## SECRETARY

I am pleased to note that this is the first time in MCET that the students are working together on a magazine. I appreciate the efforts of the students B.Tech Information Technology and wish them all the success. I hope 'INFOQUEST' proves to be a treasure of knowledge.

**Prof.C.Ramaswamy M.E., F.I.V**  
Secretary

## DIRECTOR (ACADEMIC)

I appreciate the effort taken by the students of B.Tech Information technology and I am sure this will set an example for the future batches to come. My best wishes for the team behind 'INFOQUEST'. I hope the team has seized this opportunity to express their best.

**Dr.S.Vijayarangan**  
Director (Academic)

## PRINCIPAL

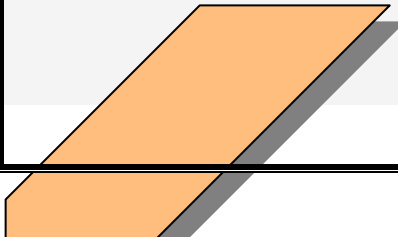
I am very happy regarding the unique initiative taken by the students of Information Technology in releasing the first edition of INFOQUEST. This would provide a good opportunity for them to express their creativity and share knowledge. I am looking forward to the release of the magazine.

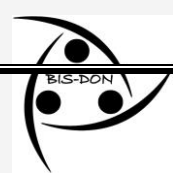
**Dr.V.V.Sreenarayan**  
Principal

## HOD

I am really excited to see that the first edition of InfoquesT has come out very nicely. The exchange of multidimensional views and ideas will certainly enrich all the members of the IT association. I ask the editorial team to pass on the baton to the next team so that this wonderful legacy continues. I wish them all the best.

**Dr.S.Ramakrishnan**  
Associate Professor & HoD





***BIS-DON***, the association of IT Department, was inaugurated on 1<sup>st</sup> August 2008 by Mr. D. Satheesh Kumar, Project Manager, and Keane.

Within a short span of time BIS-DON has conducted successful events like,

## GUEST LECTURES

Mr.D.Satheesh Kumar on '*current scenario* held on 01-08-08  
(Project manager,keane) *in IT field*

Mr.D.Mathur Bathusha on '*Career Guidance in* on 29-09-08  
Mr.N.K.Vijaya Kumar *Entrepreneurship*  
(Assistanz Networks Pvt Ltd.,Coimbatore)

Dr.G.Jai Sankar on '*Software Applications* on 20-11-08  
(Associate Professor,Dept *-an Overview*  
of Civil Engineering,DrMCET)

Mrs mano M.Kumar, on '*Entrepreneurship* on 10-12-08  
(NEN Consultants, *development*  
Coimbatore.)

## WORKSHOP

Mr.D.Satheesh Kumar on '*ERP* held on 01-08-08  
(Project manager,keane)

&

Our final year students have given a lecture on "*Bluetooth Technology and C Language*" to their juniors held on 26-02-09

# "GREEN" INFORMATION TECHNOLOGY

**G**reen Information Technology is one that provides energy and data solutions. It provides ideas for environmentally friendly disposal of e-waste. It also formulates emerging communication technologies for environmental campaigns.

## Emerging technologies

Emerging technologies to promote environmentally sound behaviors are

- Watt stoppers
- Eco button
- Energy use monitoring (local cooling)
- sensor and continuous monitoring for real time data

## Need for Green IT

The information technology (IT) sector and the modern computer data center in particular feel the impact of green power. Running everything from web sites to online banking, data centers have come under significant scrutiny recently. The consumption of electricity in data centers doubled from 2000 to 2005 and continues to climb. In 2006, data centers consumed 1.5 percent of the electricity used in the U.S. All this power drain caught the eye of the U.S. government, and in December 2006 Congress passed public law 109-431, which required the Environment Protection Agency to investigate alternatives for reducing energy consumption in data centers.

## Eco Efficiency and Eco Friendly Innovation of IT

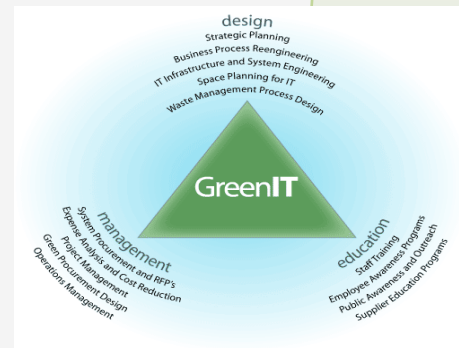
Green IT® Inc. is a progressive consultancy that is the leading advisor in the emerging field of environmentally sustainable Information and Communications Technology systems. The services provided by Green IT® enables clients to develop effective programs for **IT Eco-Efficiency** and **IT Eco-Innovation** that drive improved financial results and measurable environmental benefits. Green IT serves clients in three primary markets:

- Enterprise Executives
- Real Estate Professionals
- IT System Manufacturers and Distributors

## Green IT – the corporate way

There is a pressing need today for environmental concerns to be woven into corporate governance.

The three main



reasons are:

- The reality is that the awareness about environmental concerns has increased.
- The development of environmental law has progressed in this country. Various laws and procedural prescriptions, in the form of mandatory environmental impact assessments are in place.
- The corporate managements have to be aware of environmental implications for

their simple survival. Markets, green. Trade has forged a link with environment.

On the positive side,

- There is enough incentive for corporate managements to take environmental protection seriously.
- Commitment to the environment enhances the prestige of firms socially.

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## BLOW TO MICROSOFT

A flaw has emerged in Microsoft's Internet Explorer web browser software which allows hackers to take information from people's PCs if they visit certain websites without the knowledge of the user. Unlike other computer exploits, this one does not require users to click on fishy links or download mysterious software: it plagues computers that simply open an infected Web page.

This problem is been with the users for past two or three months who were using IE 7. When IE 7 been run in XP in two to five minutes it will be giving the "not responding" note to the users for most of the web pages. Nearly in these two months more than half million users have pasted this error code in Microsoft's help web site but no response were given to them. Simply Microsoft was trying to hide the problem or they were not able to find where the error was.

Corporates should take three main steps to green their operations. The steps are

- Corporate awareness and knowledge
- Corporate philosophy

- Corporate action.

Over 150 firms have obtained this certification. This is good augury. The whole exercise must be undertaken with a genuine commitment to protect the environment ♦

*-V.Suganya*

IV B.Tech IT

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Computer security experts became aware of the issue only when websites cropped up that were exploiting the flaw to steal user accounts for online gaming, banking and marketing etc...After they use them it can then be sold on to other parties. Security problems such as this, which are discovered by hackers before the makers of the software, are known as "zero day exploits".



At first only the Chinese websites were compromised but as on 17<sup>th</sup> night Brian Honan of the Irish Reporting and Information Security Service, said that about 10,000 sites had been infected worldwide. . Since then, the problem has spread across the globe, hitting at least 2 million computers.

Microsoft on 17<sup>th</sup> issued a statement advising its customers to "follow simple safety guidelines", including ensuring their software is

fully updated and that they have current security software installed and switched on. It advised consumers worried about how to protect their PC to read the advice at [www.microsoft.com/project](http://www.microsoft.com/project).

On the same day night Microsoft announced that it would release an update today which it is believed will address the problem. Microsoft's investigation has shown the attacks are targeting customers using Internet Explorer 7, but it said the vulnerability affects all versions of Internet Explorer.

Internet Explorer is currently used by 69 percent of Web surfers. The flaw hides inside the data binding function of the browser and causes IE to quit unexpectedly and reopen vulnerable to prying eyes. — Brennon Slattery, PC World

Some security experts advised people to switch to a different web browser, such as Mozilla Firefox or Apple's Safari, until a solution for the problem was developed by Microsoft. Irish security experts suggested this was not an option for most internet users.

"If people were to change their browser every time vulnerability was discovered they would be constantly changing," said Colm McDonnell, a security expert with Deloitte. He advised people to change their Internet Explorer security settings to High until they install the patch which is being issued.

The company's initial security bulletin advised workarounds which centered around ActiveX controls, which led many to believe that IE's original system for enabling remote code execution, was at the heart of the problem.

When asked Microsoft's Jonathan Ness for clarification of whether Microsoft believed there were active attempts to exploit the problem that's the subject of today's out-of-cycle fix, he

responded that his team now has reason to believe that one Windows user out of every 500 may have been exposed to a Web site which may contain real, active, non-imaginary, verifiable exploits for this problem.

The problem is for all the users who run IE 7 in Windows XP or windows server. Once in every two years Microsoft is been getting a huge problem like this. The pity is that not Microsoft is affected only the true users were affected. Microsoft must come out with a good security check for every updated and new version. So that only the users can stick with Microsoft forever. ◆

**-S.Veerabahu**

**IV B.Tech IT**

### **Tips & Tricks**

#### **Private Character Editor**

This program is for designing Icons and Characters(Alphabet)  
Click :start  
Then :Run  
Type :EUDCEDIT



# IT COMPANIES CLASSIFICATION

IT companies can be broadly classified into two categories. Service based companies and Product based companies.

## SERVICE ORIENTED

Service based companies provide services through software packages to external clients in various domains such as banking, finance, service and insurance. For example a bank which wants to automate its operations but does not have the sufficient resources to create its own software, outsource the job to a service based company which has the required expertise. The ownership right of the software product lies with the client. The time required for the development of the software is relatively short. An individual working in a service based company can witness a very fast career growth. The growth of the company is also very fast. These companies are market dependent (i.e.) they can do business only when there is a demand. Some of the service based companies are Infosys, Wipro, Patni solutions TCS, Perot systems, etc..

## IS YOUR SOFTWARE SECURE...?

Software piracy is the mislicensing, unauthorized reproduction and illegal distribution of software, whether for business or personal use. Protect yourself from the risks of

## PRODUCT ORIENTED

Product based companies choose an area of expertise, analyze a particular problem in that area and develop a product as a solution to the problem. The ownership of the software products lies with the company itself. The development time roughly varies between one to two years. The individual career development is slow and the job security is relatively high. These companies create products irrespective of the demand in the market. Some of the product based companies are Microsoft, Sun micro systems, Subex. ◆

**D.Bharath Subash**  
**IV B.Tech IT**

Puzzle:

How can you make a sum of 1000  
by using sixteen 4s???

**ANSWER IS**

$$444+444+44+44+4+4+4+4+4+4+4+4$$

$$+4+4$$

software piracy with helpful tips how to identify counterfeit or other misuse of software.

Pirated software hurts everyone from software developers to retail store owners, and ultimately to all software users. Furthermore, the illegal duplication and distribution of software has a significant impact on the economy.





## Effects of Software Piracy

Software piracy continues to increase globally. The effects of this increase are devastating: not only does software piracy reduce revenues, it also results in less R&D, and in less investment in marketing and channel development. The only way to stop software piracy before it happens is to implement a strong software DRM solution to protect your software from unauthorized use.

## What is a Certificate of Authenticity (COA)?

A Certificate of Authenticity (COA) is a label that helps you identify genuine Microsoft software. A COA is not a software license – it is a visual identifier that assists in determining whether or not the Microsoft software you are running is genuine. However, without it, you will not have a legal license to run Microsoft software. A COA should never be purchased by itself without the software it authenticates.

To help you verify the authenticity of the Microsoft software you acquired, be sure that your software came with one of the following COAs (or a previous version) and that the COA includes the advanced piracy prevention features described.

## Large Manufacturer Pre-installed Windows COAs

For Windows software that comes pre-installed by a large manufacturer (also known as an Original Equipment Manufacturer or OEM) on a computer, the COA should be affixed to the body of the computer. The COA includes the 25-character product key, which would be required if a reinstallation is needed



## Refurbished PC Pre-installed Windows COAs

Microsoft Authorized Refurbishers that pre-install Windows XP Home Edition for Refurbished PCs or Windows XP Professional for Refurbished PCs attach a COA to the body of the computer. The COA features the Microsoft product name printed near the top of the label and a 25-character product key, which would be required if a reinstallation is needed.



## Don't fall victim to stand-alone COAs

If you receive offers for COAs as stand-alone items, be aware that these offers are highly suspect and can put you at risk. To fall victim to stand-alone COAs offers means that you may have wasted valuable money and you will not

have a legal license to run the software. The best way for you to protect yourself is to purchase software from a familiar, reputable reseller. The Anti-Counterfeiting Act of 2003 makes it a criminal offense for dishonest resellers to distribute stand-alone COA labels.

### **Soft lifting**

Purchasing a single licensed copy of software and loading it onto several computers contrary to the license terms. For example, sharing software with friends, co-workers and others.

### **Uploading and downloading**

Making unauthorized copies of copyrighted software available to end users connected by modem to online service providers and/or the Internet.

### **Software counterfeiting**

Illegally duplicating and selling copyrighted software in a form designed to make it appear legitimate

### **OEM unbundling**

Selling standalone software that was intended to be bundled with specific accompanying hardware

### **Hard disk loading**

Installing unauthorized copies of software onto the hard disks of personal computers, often as an incentive for the end user to buy the hardware from that particular hardware dealer .

### **RentInG:**

Unauthorized selling of software for temporary use, like you would a video.

### **Intellectual Property Protection**

With industrial espionage becoming common, protecting your intellectual property means protecting your valuable code from prying eyes. Strong intellectual property protection for software is an important part of any nation's economic growth and development, and has numerous benefits:

- Encourages individuals and businesses to create new software and new software applications, as well as improving existing applications
- Encourages an indigenous software industry
- Ensures new ideas and technologies are widely distributed
- Promotes investment in the national economy
- Encourages technology transfers between nations

### **Increase your sales potential**

With increased revenues, you are free to invest more in improving your product and offering competitive prices, making it more accessible to a wider customer base.

Shortly the software piracy harms both the user and the dealers... ◆

**- R.Ramya Shree**

**II B.Tech IT**



**NAME** : **BALASARANYA .K**

**QUALIFICATION** : **B.Tech IT**

**PRESENT POST** : **Lecturer in CSE**

**INSTITUTE** : **Dr.MAHALINGAM COLLEGE OF  
ENGINEERING AND TECHNOLOGY**

**STRENGTH** : **Self Confidence**

**INSPIRATION** : **Parents**

**ACHIEVEMENTS** : **UNIVERSITY 11<sup>th</sup> rank (ANNA  
UNIVERSITY) & **FIRST RANK** holder in  
Dr.MCET (Gold Medalist).**

**ADVICE TO THE STUDENTS** : **Students must gain outside knowledge other  
than text books. They should actively  
participate in extra &co-curricular activities.  
They should have innovative and creative  
thinking.**



# MENTAL STRESS IN IT JOB

## STRESS...:

Unreasonably high expectations are the root cause of mental stress at the workplace. Stress is a normal part of life. In small quantities, stress is good -- it can motivate you and help you be more productive. However, too much stress, or a strong response to stress, is harmful.

Job stress comes in many different forms and affects your body in various ways. Minor sources of stress may include equipment that won't work or phones that won't quit ringing. Major stress comes from having too much work, not having enough work, doing work that is unfulfilling, fearing a job layoff, or not getting along with your boss.

Job stress is a chronic disease caused by conditions in the workplace that negatively affect an individual's performance and/or overall well-being of his body and mind. It can be linked to headaches, an upset stomach, back pain, or trouble sleeping. It can weaken your immune system, making it harder to fight off disease. If you already have a health problem, stress may make it worse. It can make you moody, tense, or depressed. Your relationships may suffer, and you may not do well at work or office.

Working on a project on stress at work, Andy Ellis, Ruskin College, Oxford, UK, has shown in a chart how stress can adversely affect an employee's performance. In the early stages job stress can 'rev up' the body and enhance performance in the workplace, thus the term 'I perform better under pressure'. However, if this condition is allowed to go unchecked and the

body is revved up further, the performance ultimately declines and the person's health degenerates.

The signs of job stress vary from person to person, depending on the particular situation, how long the individual has been subjected to the stressors, and the intensity of the stress itself.

## TYPICAL SYMPTOMS OF JOB

### STRESS...:

Insomnia, Loss of mental concentration, Anxiety, stress, Absenteeism, Depression, Substance abuse, Extreme anger and frustration, Family conflict, Physical illnesses such as heart disease.

### RELAX...:

Balance between the personal and professional life is very essential. To reduce workplace stress. We have developed a Code of Practice for Initiative members and have recently launched a project to identify and promote best practices in Manitoba workplaces which will assist employers and workers make changes to reduce workplace stress.

## SOLUTION TO REDUCE STRESS...:



Learn better ways to manage your time. You may get more done with less stress if you make a schedule. Think about which things are most important, and do those first. Find better ways to cope. Look at how you have been dealing with stress. Be honest about what works and what does not. Think about other things that might work better. Take good care of yourself.

Get plenty of rest. Eat well. Do not smoke. Limit how much alcohol you drink. Try out new ways of thinking. When you find yourself starting to worry, try to stop the thoughts. Work on letting go of things you cannot change. Learn to say "no." Another method - Meditation is the practice of focusing your attention to help you feel calm and give you a clear awareness about your life.

Some stress is normal and even useful. It can help if you need to work hard or react quickly. For example, it can help you win a race or finish an important job on time.

### PUZZLE:

There is a number which is greater than aggregate of third, tenth and twelfth parts by 58.. Can u find the number?..

Answer : 120

## HEART OF INFOSYS:

Narayana Murthy is the Non-Executive Chairman and Chief Mentor of Infosys Technologies Limited. He is a living legend and an epitome of the fact that honesty, transparency, and moral integrity are not at variance with business acumen. He set new standards in corporate governance and morality when he stepped down as the

## REDUCE WORKLOAD:

Work is a significant and meaningful feature in life. Most of us spend on an average more than 10 hours at the workplace. While work can provide us with structure, purpose, satisfaction, self-esteem and spending power, the workplace can also be a setting of stress and worry. There is a thin line between being passionate about one's work and getting completely consumed by it. Working compulsively and work obsession can also be a manifestation of emotional issues plaguing a person and can escalate to work holism. Head-HR and RMG group, Info gain India, points out,

“Management of work, relationships at work, organizational set-up, power and control in our work, aggressive work culture, tremendous pressure to continuously perform and deliver results, lead to work-related stress.” ◆

-T.EZHIL ARASU

II B.Tech IT

Executive Chairman of Infosys at the age of 60. Born on August 20, 1946, N.R. Narayana Murthy is a B.E. Electrical from University of Mysore (1967) and M.Tech from IIT Kanpur (1969). Narayan Murthy began his career with Patni Computer Systems in Pune. His first position was at IIM Ahmedabad as chief systems programmer where he worked on a

time-sharing system and designed and implemented of India Limited).

After IIM Ahmedabad, he then joined Patni Computer Systems in Pune. Before moving to Mumbai, Murthy met his wife Sudha Murthy in Pune who at the time was an engineer working at Tata Engineering and Locomotive Co. Ltd. (Telco, now known as Tata Motors) in Pune. In 1981, he founded Infosys with six other software professionals in USA. He served as president of the National Association of Software and Service Companies, India from 1992 to 1994.

### **Setting Infosys**

He and his colleagues were very clear that they wanted to be in India. There were many opportunities to settle outside but they wanted to create an institution in India. That time there was hardly a market in India, so they had to look at the export market from day one. At that time they had no idea how far it would go but they got satisfied mainly from working with bright, smart and hard-working young men and women.

### **First Contact**

The first contract for Infosys was from Data basics in New York. He had worked with them at Patni Computer Systems but they wanted to set up on their own software group in India. His team convinced them that they could do as good a job. Narayana moorthy's colleagues left for the US to work on-site on the project. So he stayed back to set up the infrastructure. That time he decided to import a computer so that we could add value from India.

With the liberalization of Indian economy in 1990s, Infosys grew rapidly. In 1993, the

company came up with its IPO. In 1995, Infosys set up development centers across cities in India and in 1996, it set up



its first office in Europe in Milton Keynes, UK. In 1999, Infosys became the first Indian company to be listed on NASDAQ. Today (in 2006), Infosys has a turnover of more than \$ 2billion and has employee strength of over 50,000. In 2002, Infosys was ranked No. 1 in the "Best Employers in India 2002" survey conducted by Hewitt and in the Business World's survey of "India's Most Respected Company." Conducted in the same year. Along with the growth of Infosys, Narayana Moorthy too has grown in stature. He has received many honors and awards. In June 2000, Asia week magazine featured him in a list of Asia's 50 Most Powerful People. In 2001, Narayana Murthy was named by TIME/CNN as one of the 25 most influential global executives.

He was voted the World Entrepreneur of the Year - 2003 by Ernst and Young. The Economist ranked Narayana Murthy eighth on the list of the 15 most admired global leaders (2005) and Narayana Murthy also topped the Economic Times Corporate Dossier list of India's most powerful CEOs for two consecutive years - 2004 and 2005.

Shortly Narayana Moorthy is the one of the diamonds of India and no doubt he is the "father of Indian computers"...

**-V.S.SELVARAJ II B.Tech IT**

## ENGINE OF A SEARCH

### ENGINE

Terry S. Semel is the honorable Chairman and Chief Executive Officer of Yahoo! Inc. Yahoo! is at present the leader in the world of Internet Company and from the initiation has been able to professionally sustain its leadership and effectively. Semel's sphere of focus concentrates merely on the provision of the strategy and vision that enables Yahoo! towards the attainment of its objective to be Internet's foremost global consumer and business Services Company.

#### BACKBONE'S BACKGROUND

Semel hails from a family that was professionally committed with his father as a woman's coat designer and his mother was a bus company executive. Being groomed with these ethics of parents from the very beginning, gradually a kind of discipline took place within him resulting into the growth of a man that has stunned the international business community by virtue of his professional, bold approaches and strong ethics. He was graduated in 1964 from the Long Island University in Brooklyn with a B.S. degree in accounting.

Being an astute professional he has always worked with that dignity that has earned awe from his fellow colleagues. He worked in charge of Walt Disney's Theatrical Distribution division and previously in charge of CBS' Theatrical Distribution division. Later he joined the Warner Bros. and worked there for 24 years at a stretch.



It was here that through his execution stole the limelight. He was in the role of Chairman and Co-Chief Executive Officer where he along with his partner Robert Daly made

it possible for the Warner Bros. To reach the zenith as the one of the largest and most creative media and entertainment enterprises of the globe. Terry, in addition, is credited with transforming Warner Bros. from a single revenue source generating less than \$1 billion to nearly \$11 billion total revenues from multiple, diverse businesses in 50 countries.

It was this fame that he earned as a globally respected media and entertainment executive that brought before him the offer from the internationally acclaimed Yahoo! Inc, which he joined and was named Yahoo!'s Chairman and CEO in May 2001. It has been witnessed that since Semel was designated for the top job at Yahoo five and a half years ago, the firm's share price has exponentially increased with 180%. In the last three years Semel has sold 18.1 million of his stock options for a gain of \$450 million. He in spite of this is able to maintain another 18.6 million unexercised stock options.

*In 2005, Semel was granted the UCLA Medal, which is the highest honor bestowed by the Long Island University, and the Yale Legends in Leadership Award. Thus the son of an ordinary coat designer has proved himself by running as an "ENGINE OF A SEARCH ENGINE".* ◆

**-V.S.SELVARAJ II B.Tech IT**

# TECHNOLOGIES FOR TOMORROW

## Internet Phone Options

Internet phone is a technology that lets us send phone signals through our broadband internet lines and the range of internet phone options available to consumers is expanding rapidly. Formerly a high-tech mess of headphones, microphones, and noisy tech, internet telephone technology is now fully developed and here to stay. Keep reading to learn about the different options that are available - including computer to phone and phone to phone services.



## Computer To Phone Services

These services allow you to call any phone line from your computer. To set this up, you'll need a computer connected to the internet and a headset with headphones and a microphone. These services are generally cheaper, but most people use them for outgoing long distance calls only. Because your phone is linked to your internet and your computer, both need to be up and running for it to work. Some of the larger Computer to Phone providers do

sell phone equipment that lets you make and receive calls without being tethered to your computer. These phones, which cost around \$100-\$300 still require a subscription and internet access, but give you greater mobility and a more "phone-like" experience.

## Phone To Phone Services:

These phone services use your existing internet service to give you a digital telephone that operates like a regular telephone. Essentially, a small adapter connects your cable internet line to your telephone line, connecting the two. From there, you receive a regular phone number, a digital telephone, and the ability to make unlimited long distance calls for a small subscription fee. Again, your phone is connected to your Internet, so it's always a good idea to have a backup telephone, like a cell phone, on hand in case of emergencies or black-outs. ♦

- C.Saravanan.

III B.Tech IT

### Did You Know?

- *The Internet has been around since the 1960's.*
- *The World Wide Web was invented in 1990 by Tim Berners-Lee as a tool for academic and government researchers to link scientific research. It was not widely available to the general public until Internet Service Providers began offering dial-up service in the mid-1990s. Tim Berners-Lee now directs the World Wide Web Consortium.*



# INTERNET ON 2020

Everyone has the imagination about how the internet will be used during the year 2020 and think about what the people actually want. Some of the problems of the current Internet are the following:-1) Lack of security 2) Explosion of network traffic such as multimedia, p2p, etc. 3) Explosion of network devices (wired & wireless devices) 4)Very difficult to manage 5)Difficult to support mobility 6) No guarantee on QoS.

The Future of the Internet III is the third canvassing of Internet specialists and analysts by the Pew Internet & American Life Project. That process does not yield a random, representative sample. Some 578 leading Internet experts responded in this survey to scenarios about the effect of the Internet on social, political, and economic life in the year 2020. An additional 618 stakeholders also participated in the study, for a total of 1,196 participants who shared their views.

## The key findings on the survey

- The mobile device will be the primary connection tool to the internet for most people in the world in 2020. The smart phones with great computing power will be used for providing information in a portable well connected form at relatively low price since internet growth rate is now 50% compared to 30% in 2005. (81% agree,19% disagree)
- The transparency of people and organizations will increase. People are even more open to share personal information, opinions and emotions than at present.

Hence they become more responsible for their own actions and more forgiving nature than present. (44% agree,45% disagree,11% no response)

- Greater tolerance occurs in several metrics including declining level of violence and hate crimes. But this will not necessarily yield more personal integrity, social tolerance, or forgiveness. (44% agree,45% disagree,11% no response)



- Voice recognition and touch user-interfaces with the internet will be more prevalent and accepted by 2020. For instance, a small handheld Internet appliance allows you to display and use a full-size virtual keyboard on any flat surface. Furthermore talk are the main means to communicate with computer devices. (67% agree,19% disagree,14% no response).
- Those working to enforce intellectual property law and copyright protection will remain in a continuing arms race, with the crackers who will find ways to copy and share content without payment. (31% agree,69% disagree,9% no response). Some may suggest that those who use copyrighted materials are automatically billed by content managers and Internet service providers automatically notify authorities when they identify the clients who try to subvert their system.

- The divisions between personal time and work time and between physical and virtual reality will be further erased for everyone who is connected, and the results will be mixed in their impact on basic social relations. (56% agree,29% disagree,15% no response)
- Next-generation engineering of the network to improve the current internet architecture is more likely than an effort to rebuild the architecture from scratch. Search, security and reliability are more refined and improved further a lot.(81% agree,19% disagree,% no response)

This survey concludes that the experts expect major technology advances as the phone becomes a primary device for online access, voice-recognition improves, and the structure of the Internet itself improves. They disagree about whether this will lead to more social tolerance, more forgiving human relations, or better home lives. . Hence the future Internet must concentrate on Security, Mobility, Manageability, Programming, and Virtualization. ◆

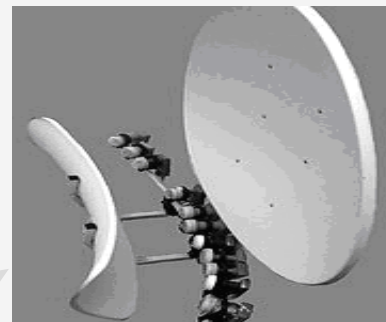
**-M.Muthu Kumar**

## WI(Y)MAX

### INTRODUCTION

The system actually coming into being right now is called WiMAX. WiMAX is short for Worldwide Interoperability for Microwave Access, and it also goes by the IEEE name 802.16. It is a technology that provides up to 75 Mb/s symmetric broadband speeds without the need for cables.

WiMAX has the potential to do to broadband Internet access what cell phones have done to phone access. In the same way that many people have given up their "land



lines" in favor of cell phones, WiMAX could replace cable and DSL services,

providing universal Internet access just about anywhere you go. WiMAX will also be as painless as WiFi -- turning your computer on will automatically connect you to the closest available WiMAX antenna.

## A New Dimension for communication

In practical terms, WiMAX would operate similar to WiFi but at higher speeds, over greater distances and for a greater number of users. WiMAX could potentially erase the suburban and rural blackout areas that currently have no broadband Internet access because phone and cable companies have not yet run the necessary wires to those remote locations.

### WiMAX system consists of two parts

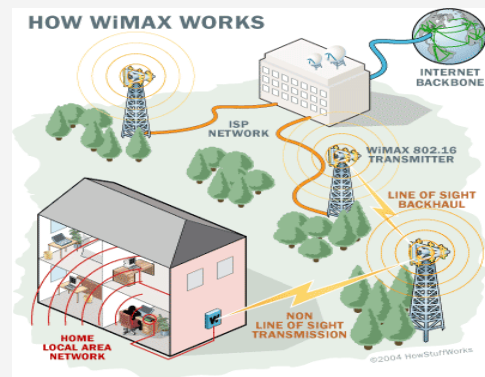
- ✓ A **WiMAX tower**, similar in concept to a cell-phone tower - A single WiMAX tower can provide coverage to a very large area -- as big as 3,000 square miles (~8,000 square km).
- ✓ A **WiMAX receiver** - The receiver and antenna could be a small box or PCMCIA card, or they could be built into a laptop the way WiFi access is today.

A WiMAX tower station can connect directly to the Internet using a high-bandwidth, wired connection. It can also connect to another WiMAX tower using a line-of-sight, microwave link. This connection to a second tower (often referred to as a backhaul), along with the ability of a single tower to cover up to 3,000 square miles, is what allows WiMAX to provide coverage to remote rural areas.

## WiMAX provides two forms of wireless service

### 1. Non-line-of-sight

In this mode, WiMAX uses a lower frequency range 2 GHz to 11 GHz (similar to WiFi). Lower-wavelength transmissions are not as easily disrupted by physical



obstructions they are better able to diffract, or bend, around obstacles.

### 2 Line-of-sight

Here a fixed dish antenna points straight at the WiMAX tower from a rooftop or pole. The line-of-sight connection is stronger and more stable, so it's able to send a lot of data with fewer errors. Line-of-sight transmissions use higher frequencies, with ranges reaching a possible 66 GHz. At higher frequencies, there is less interference and lots more bandwidth.

WiFi-style access will be limited to a 4-to-6 mile radius (perhaps 25 square miles or 65 square km of coverage, which is similar in range to a cell-phone zone). Through the stronger line-of-sight antennas, the WiMAX transmitting station would send data to WiMAX-

enabled computers or routers set up within the transmitter's 30-mile radius (2,800 square miles or 9,300 square km of coverage). This is what allows WiMAX to achieve its maximum range.

## RESEARCHES IN INDIA

BENGALURU, India — Leading operators are working together to deploy WiMax networks across India. Company sources said Reliance plans to buy over 1 million units of customer premise equipment (CPE) over the next year. Bharti Airtel said it will deploy WiMax nets to 300 towns while Internet service provider Aircel, which



"Honestly, dad. I can't keep coming in here every 5 minutes to help you with your computer. From now on I'll be charging you \$3.00 per minute."  
Optimize-Your-PC.com

provides WiMax-based backhaul services in south India, also plans to expand.

Other providers with WiMax plans include Sify, MTNL, HCL Infinet and Railtel, Aircel, and Airtel. Radius, it will be the coastal areas and ships or boats in harbour which will benefit with the connectivity. ◆

-G.Naveen Prabhu , III B.Tech IT

## SATYAM FIASCO

ON 24th June 1987, Satyam Computer was incorporated as private limited company for providing software development, and consultancy services to large corporation. The company was promoted by B.Rama Raju and B.Ramalinga Raju.

In 1991, Satyam Computers became the first Indian company to provide offshore services. His first major client John Deere, was skeptical about outsourcing to Satyam, but Raju's simple extensive management module convinced it. Began by 1990's, by the end of the decade Satyam Computer grew into the big league of IT companies in India, and became the fourth largest IT Company.

### EVENTS LEADING TO THE FALL OF SATYAM

Various events lead to the fall of satyam and few are:

**2008: December 16**-Satyam Computer Services announced \$1.6 billion acquisition of 100% stake in Maytas properties and 51% stake in Maytas Infra, both promoted by Ramalinga Raju and sons.

**December 24**-World Bank bars business with Satyam for 8 years

starting September 2008. **December 25-** Academician and independent director Mangalam Srinivasan exits from Satyam not voting against it.

**December 28-** Satyam Computer defers crucial board meet from December 28 to January 10. **December 29,30-** Non-executive director Krishna Palepu and independent director Vinod Dham resign from board and Indian school of Business dean Rammohan Rao also quit, respectively.

**2009: January 2-** Satyam discloses to stock exchange that Raju and his family have pledged all their shares, held in a corporate entity SRSR limited, to institutional lenders. **January 3-** Ramalinga Raju's stake in Satyam falls to 5.13% from 8.27% as lenders sell shares.

**January 6-** Ramalingu Raju's stake falls further to 3.6% from 5.13%.

**January 7-** Chairman Ramalinga Raju and MD Rama Raju resign.

### MAGNITUDE OF FORGERY:

The fudging of books of account by the promoters of Satyam is one biggest fraud that Indian corporate world has witnessed. Raju admitted the falsifying of the earning and asset in his letter to the SEBI chairman. He admitted of the following:

- Inflated cash and bank balance of Rs.5040crore. Non-existence of accrued interest of Rs 376 crore.
- Understated liabilities of Rs 1230 crore on account of funds arranged by Raju.
- Overstated debtor's position of Rs 490 crore.
- Q2 2008-09 revenue was stated as Rs2700 crore as against Rs 2100 crore.
- Operating profit margin was stated as 24% as against actual 3%.



Promoter shareholding in the company was so low that it became very difficult for Raju to conceal the truth for long. He was also horrified by hostile takeover by some company and eventually the manipulation of account coming into picture, and was in catch for 22 situations. He didn't have any option other than to publicly accept his guilt.

### IMPACT OF SATYAM SAGA:

As for the opinion that in short to medium term there will be ripple effect that could be seen on the street and IT companies will be affected by it. Street will feel the pinch for some time and the scars of the broken trust could be seen in

investors' eyes for years. As said time is the greatest healer so people will move forward. Its expected that government will strengthen the auditing norm and the corporate governance. In this case PwC work as auditing firm is under scanner and is highly questionable. Insurance company is also in line to lose a significant portion in terms of claim. As Satyam has \$75 million covers to defend directors who are under fire for dereliction of duty.

#### CONCLUSION:

There are 53000 employs whose future is at stake, at the time when economy is reeling under recession. The only answer to Satyam fiasco is that '**bad corporate governance**'. And the India Inc now has to answer how to make the corporate governance more transparent and accountable.

Lets hope there is no repeat of Satyam story forever

-R.RAMYA SHREE II B.Tech IT

## AN INTERVIEW WITH COLLEGE ALUMNI



*D. Karthick is an alumni of Dr.MCET belonging to the Department of Mechanical Engineering. He took up the Common Aptitude Test and has secured a percentile of 99.90. He has got calls from all the six IIMs and is currently pursuing his PGP-M(Finance) in IIM-Ahmedabad, the best B-School in India. Here is a short excerpt from a tête-à-tête with him.*

#### *Q.How to choose a B-School?*

*The first step would be to visit their web-site.*

*- Check if the tuition fee is affordable. Loans would be available easily, but take some time to find out if that particular institute is worth that fee.*

- Check how renowned it is, in your preferred area of specialization.

- Speak to alumni. Spend a little time in orkut communities or facebook, and you can get contacts of any BSchool Alumni. Get to know about the infrastructure, and placements. Ask them about the sort of companies which visit their campus, and check if they match with your specialization interests.

- Check its placement record. If its not available on the website, contact the institute and press for it.

- Check the degree name. IIMs offer PGP-M not MBA. A few more colleges have such name changes, and not all would be recognized.

- Get to know the class strength. Some colleges try to accommodate 120 in a single class room.

**Q:Does work experience matter before pursuing MBA?**

A relevant work experience will definitely help during placements. If you are very sure about the job you wanna get into after MBA, try to get around two years of work experience in that specific area, or at least a year and a half. Remember, you will be among students from the IITs if you

get into a good BSchool, and that IIT edge will help them everywhere, including placements. Work experience is one thing which can help you level your odds against them.

**Q:Guidelines to CAT aspirants**

There were quiet a few of my friends who prepared for CAT, and everyone who prepared sincerely cracked into good BSchools. Its tough, yes, but definitely possible. Start reading. Magazines, News papers etc. People who have issues with accent and voice, read aloud in your room. Training centers like IMS, Time etc., provide perfect materials for preparation. You can take their classes or study on your own according to your preference. But I would advice not to miss the simulation CATs they conduct. Spending ample time on these question papers, both after the quiz and after the results, gives you lot of insight on your strengths and weak spots. Work out previous year question papers also. Most important thing is to know where you stand at each step.

**Q:What is your success mantra?**

Confidence. After all the practice, i was sure i am not gonna do a bad job in the exam hall. take the test with a cool head, nothing will go wrong.

**Q:Who has been your inspiration?**

My family. I used to imagine the smiles and pride they would have on their faces if I crack into IIMA. But, the reality was 1000 times more beautiful, and worth any effort I could have put in.

**Q:Your experience in IIMA,the top most B-School in India**

I can write pages for this one question. But guess I am not allowed to. The best thing about IIMA is its Professors. You could guess i suppose, how you would feel if you are taught Economics by someone thing about IIMA is its Professors. You could guess i suppose, how you would feel if you are taught Economics by someone who advises the President of India on economic matters. Its like, there is nothing they don't know.

About academics, the first year is hectic. Sleeping at 4 in the night is a

very normal thing. But amidst all the assignments, surprise quizzes and case preparations, there is a whole lot of fun also. The Dorms are more like families for each of us here, and the seniors take every effort to help with anything possible. To the world, we are students of IIMA, and we do try to live to that expectations at every walk of our life outside this campus. But inside the walls, we are all the same old crazy bunch of students you see around everyday. It was good old college days again

---

#### PUZZLE:

There is a number which is very peculiar. This number is 3 times the sum of its digits. Can you find the no?

ANS: the no is 27,  $2 + 7 = 9$ ,  
 $9 \times 3 = 27$

#### **PLACEMENT DETAILS**

Placements for 2005-2009 was at a great success. Many students are recruited in topmost companies. The salary offered by companies varies between 2.75 lakhs per



annum to 4.25 lakhs per annum. The companies list and the students selected in those companies are:



13



1



1



9



3



1



1



3



7



2



2

**INTRACOLLEGE EVENTS-PRIZE  
HOLDERS**



# ESPERENZA

## PAPER PRESENTATION

N.Sanghamitra , S.Narmada III IT

R.Nandhini , D.Neeraja II IT

## POSTER DESIGNING

R.Dinesh Kumar II IT

R.Veena II IT

## MAZE

P.Saravana Kumar , G.Naveen Prabhu III IT

S.Suresh,V.Suresh Kumar,II IT

## C-PROGRAMMING

S.Prince David, III IT

V.S Selvaraj,II IT

## QUIZ

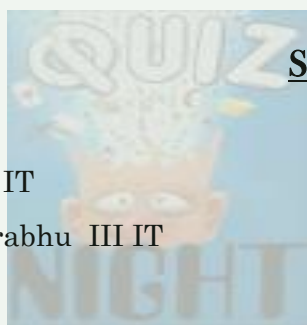
M.Palaniswamy,P.Kesavan ,III IT

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M.Saranya III IT



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## IEEE

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S.Narmadha, N.Sangamithra, III IT

S.Jayanthi, K.Saranya,IV IT

B.Saranya, S.Kavya, II

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### *WINNERS*



### FOOTBALL:

S.Sundar Ram , Balasubramaniam

K.Lourd Micheal Antony,II IT

S.Kavitha ,II IT

-Intra college

-Ties Football 2008

### CRICKET:

S.Lokesh kannan ,III IT

Sathish.R , Thianeswaran.C , III IT

-Intra college

-VLB Janakiammal College of

### BASKET BALL:

R.Ramyapriyadharshini ,III IT

-Intra college

### HANDBALL, VOLLEY BALL:

N.Saranya ,III IT

-Intra college

### ATHLETICS:

R.Sathish,III IT (4x400 relay)

-Anna university zone



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### FOOTBALL

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-Intra College

R.Jayalakshmi ,II IT

- Ties Football 2008

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- Ties Football 2009

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-Zonal match

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Shanmuganathan.K , Vigneshwaran.N ,IIIT

- Sri Ramakrishna  
Engineering College

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- Ties Football 2009

P.Velava raghul,II IT

- Ties Football 2009

### BASKET BALL

R.Vishnukumar , II IT

K.Lourd Micheal Antony,II IT



-TCE Tournament

-Intra college

R.Radhika ,III IT  
Sivasankarapandian , III IT

-Intra college  
-CIT,coimbatore

S.Lokesh kannan ,III IT

-Intra college

### CRICKET

Thianeshwaran ,R.Sathish ,III IT  
K.Lourd Micheal Antony,II IT

- Intra college  
-Intra college

### HAND BALL

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-TCE Tournament

R.Radhika ,III IT

-Intra college

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- Ties 2009 &TCE

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-Intra college

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R.K.Hari Prasath , II IT

-Intra college

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-Ties Volleyball 2008

Banumathi E,IV IT

-Ties Volleyball 2009

Amsavelmani S, Abinaya.V, Lavanya R,I IT

-Ties Volleyball 2009

S.Guruprasad ,III IT

-Intra college, Zonal match

### CHESS

S.Nataraj II IT

- Ties 2009

K.S.Gowtham,III IT (RUNNER)

- Sri Subramaniya College



**PAPER**



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C.Kanimozhi, III IT

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B.Arunkarthik, IV IT

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V.S . Selvaraj, II IT

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M.Subash, III IT

P.Kesavan, III IT

D.Venkattesan, III

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S.Ponmudi Krishnan, III

Velammal College Of  
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AMS College Of Engineering &  
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D.Bharath subash,IV IT	2nd	- SKCET, Coimbatore

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B.S.Dinesh Balayah, III IT		- Sakthi Institute Of EngineeringAnd Technology, Coimbatore
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D.Rajaganapathy  
M.Muthukumar  
S.V.Purushothaman  
M.Vinuprakash IV IT

- PSG Tech, Coimbatore

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### C Programming & Debugging

S.Prashanth, IV IT  
V.R.Dharmalingam, III

- GCT, Coimbatore  
- KCET, Coimbatore

### Marketing,

B.S.Dinesh Balayah, III IT



- Sakthi Institute Of Engineering  
And Technology, Coimbatore

## WORKSHOP ,SEMINARS,CONFERENCES

S.Gobinath,  
P.Krishthyaganandhan, IV IT

National Conference On  
Technology By IMA

- SASTRA University  
Coimbatore

D.Bharath subash, IV IT

Workshop on Virtualization  
& Windows Vista. & IEEE  
International R10 Students  
Conf. & Microsoft conference

- PSG Tech, Coimbatore  
-SNS, Chennai  
- Sakthi College Of  
Eng And Tech, Coimbatore.

M.Satheesh Kumar,P.Siddharth  
K.Shanmuganathan ,III IT

Attended Workshop  
(Recent Trends in wireless Network)

- MIT, Chennai

R.Nandhini Devi,III IT

Attended Workshop  
(Leadership development Campaign)

- PSG College of Tech,  
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## **FROM EDITORIAL TEAM**

**A Genius is 1% inspiration and 99% perspiration'. The inspiration for INFOQUEST is Dr.S.RamaKrishnan, HOD, Department of Information Technology and we have strived together to get this first edition to the readers.**

**This issue contains lots of remarkable and interesting information and loads of fun too. We have the news round-up of BIS-DON, the IT Association. We also have a report on ESPERENZA '08 and TECHSYM '08, two highly successful events organized by BIS-DON. A synopsis of the latest trends in the IT field has been included.**

**We also have an interview with our college alumni Mr.D.Karthik who is currently pursuing his MBA in IIM-A, the best B-School in India. A plethora of highly informative articles by the students of IT**

**Department have also been published. An article exclusively deals with the technologies for tomorrow. We have more in store for you, so go ahead and quench your thirst for knowledge.**



# MAGAZINE OF INFORMATION TECHNOLOGY



 android



## Windows 8

