

April 2013 Version 5.0

Dr. MAHALINGAM  
**MCET**  
COLLEGE OF ENGINEERING AND TECHNOLOGY  
Empowering Technical Minds

# InfoquesT

Elixir of Technology



## Department of Information Technology



Innowis'12  
Placement Session'13  
student achievements

Dr. Mahalingam College of Engineering and Technology  
Pollachi





# Department of Information Technology Batch 2009-2013





# MESSAGE

## Message from prof.C.Ramasamy, Secretary



The publication of a magazine symbolize that an institute is moving towards mellowness. An in-house magazine provides a forum to potential writers to develop their thinking and writing power. A number of famous writers started their fourth magazine namely "INFOQUEST" which contains useful articles and other interesting features. The magazine projects the numerous social events taking place in MCET to provide student's opportunities to show case their talents. The long and strenuous efforts made by the

editorial team members must be appreciated.

## Message from Dr.S.Vijayarangan, Director (Academic)

I am happy to note that release of "INFOQUEST" fifth issue by IT students which is enriched with budding IT technologies. This issue depicts the student's involvement and their thirst of knowledge. "Ability is nothing without opportunity", is the quote. MCET gives the opportunity to reveal the wisdom of students via releasing such an esteemed magazine "INFOQUEST". I'm sure that each and every page of fifth issue for the academic year 2013 provides a wider spectrum of knowledge to the reader. I wish the editorial team for having done a wonderful compilation to attain a grand success in the walk of propagating their perception





## **Message from Dr.S.Chenthurpandian, Principal**



I'm very pleased to note that information technology department students are coming up with their innovation in the form of magazine (INFOQUEST). Letting the new trends in the IT field reaching the students in the form of a magazine is much appreciable. I wish them all success in their journey ahead.

## **Message from Dr.S.Ramakrishnan, Head of the Department**



As we begin our first publication of 2009, it is our turn to introduce something new in our fifth issue of an INFOQUEST. I am thankful for our wonderful reader, our talent writers and our generous management gave the opportunity to release the four successful magazines in our departments. Our IT students bought technical treasures of their IT and surprising insights in this issue. We hope this issue provides the fulfillment to the thirsty readers. I am inspired by the energy of our students and their commitment to the work. I hope this magazine is encapsulated with interesting and informative articles.



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## VOICE OF THE EDITORIAL TEAM

*“Challenges are what make life interesting; overcoming them is what makes life meaning...”*

We proudly present the Infoquest version 5, with all the efforts being put by the editorial team and the faculty members, who guided us throughout the period and the Head of the department, who served the very purpose of initiating the thirst to produce the best publication.

*“To know is to know that you know nothing. That is the meaning of true knowledge....”*

The booklet transforms a bud to tree by providing wide variety of information. The main target is to spread the knowledge to all in their level as they need. This admires you that such information is very valuable.

*“When you change the way you look at thing, the thing you look at change...”*

The success of this shot was proved when we got a very good response with a good content from all the students of the department. Each and every speckle of the department spent their effort for the pinnacle of this publication. So, Get ready for a mind blowing experience.

With regards,  
Magazine Team

(2012-2013)



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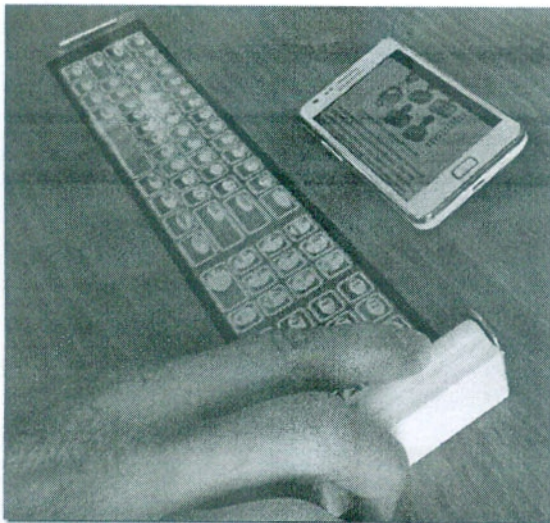


## POCKET KEYBOARD

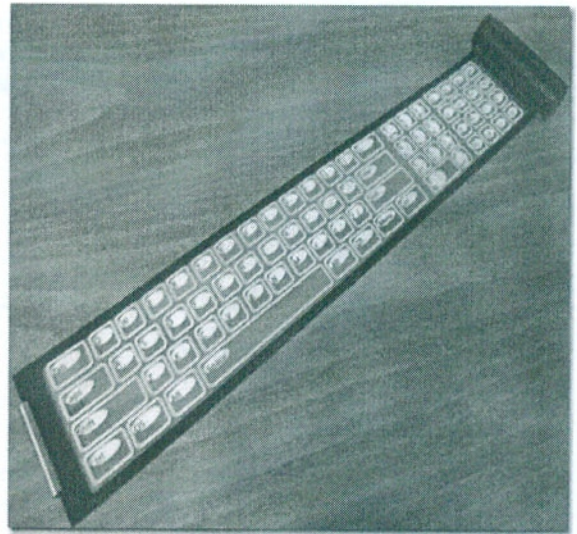
### Folding keyboard in your pockets

Folding the papers is old way of reducing space. Being an IT professional, come let's fold the electronic devices in our pockets. Is it possible? Yes.

"Qii" is a compact, mobile keyboard that you can roll like a sheet to slip into your pocket within no time. The functioning of "Qii" is similar to the rolling tape. Based on a flexible touch sensor that turns any surface into a functional user interface for your devices, the portable keyboard turns your Smartphone into an efficient pocket computer.



Connecting wirelessly to your Smartphone or tablet, the QWERTY computer keyboard lets you type virtually on any surface with ease.



The main advantage of this advancement of keyboard is to connect our smart phones thus making the use in an easy way. Featuring an anti fingerprint coating for a clean and textured surface, the ultra thin and flexible keyboard is water and dirt resistant that you can easily wash with soap and water.

It reduces the time for maintenance. Featuring the body finished in a flexible transparent electronic film, the bendable keyboard makes use of a radical touch sensing technology, capable of sensing both position and force, to present a programmable touch surface in a compact size. Accessing of Tablets in fast and effective way is achieved by using these kind of compatible and mobile keyboards.



Bhuvaneshwari

Second-IT



## TABLET SUPPORT- IT'S NEXT CHALLENGE

As tablets become more common in the workplace, new research shows an increasing need for IT professionals to support their use.

The survey, conducted by Cisco, suggests the use of enterprise-grade tablet computing will increase in 2012. More than 20 percent of U.S. employees ask to use a company-owned tablet.



The most experienced managing tablets, found that IT professionals in the U.S. are the most concerned about securing them. Three-quarters of the IT managers surveyed in the U.S. said new rules must be established around tablet security and device usage.

Worldwide, 75 percent of IT managers said work-issued tablet must have email and document-sharing capabilities. Other services needed for a business tablet include video conferencing, instant messaging, access to company databases and seamless synchronization with other business devices.

"Mobile workers and virtual workspaces are here, but the demands on IT to continue to ensure enterprise-grade security, manageability and interoperability," said Tom Puorro, director of product management for Cisco Systems.

The use of Tablets increases rapidly, many businesses are seeing employees using their own devices on the job. More than half of the surveyed businesses said they've seen an increase in the number of employees bringing their own devices to work.

That can cause a number of problems for businesses, the research found, including the inability to access company servers securely, and the diversion of IT staff's attention from other important projects.



Vahini.R

Second-IT



## ECLIPSE

It is a multi-language software development environment comprising a base workspace and an extensible plug-in system for customizing the environment. It can be used to develop applications in Java and, by means of various plug-ins, other programming languages. The Android process is introduced for developing rich UIs for the apps, as widgets. It showcases how easy it is to test the developed app by deploying it on an Android device simulator.



### System requirements:

Before beginning Android development, make sure you have the following installed:

- **Eclipse SDK** — V3.5 is suggested for use with the latest Android SDK. This can be downloaded from the Galileo download page.
- **Android Development Tools (ADT)** — This is an Eclipse plug-in. It is the equivalent of JDT (Java Development Tools) for Android Development.

### To create an AVD:

1. In Eclipse, choose **Window > Android SDK and AVD Manager**.
2. Select **Virtual Devices** in the left panel.
3. Click **New**. The **Create New AVD** dialog appears.
4. Type the name of the AVD, such as "myPhone."
5. Choose a target. The target is the platform to be run on the emulator. You will also get an option to choose the Google APIs, but that is unnecessary unless we want to have some Google API in the app specifically. The rest of the fields can be ignored for now.
6. Click **Create AVD**.



R.Mathiarasi

Final-IT



# LASER COOKERY



On pointing your phone's camera over toast, it pops up with a strange pattern burned into it. You can also pull up a website showing the day's traffic news for your commute. You can use your phone for multipurpose.

These are one of the applications of "laser cookery" envisaged by Kentaro Fukuchi and colleagues at Meiji University in Japan. They reckon laser cutters have done their time in industry and, like 3D printers before them; it's now time for them to come into our homes - as a new breed of laser-enabled kitchen appliances.

At cookery technology workshop in Nara, Japan, in November, the researchers showed how a bench top industrial laser cutter - normally used to cut or engrave patterns in plastic, wood and metal - could generate a variety of fascinating foodstuffs when hooked up to a computer running graphics software and a webcam.

Melt-fat raw bacon, an allegedly tasty sliver of uncooked bacon on which the fat is cooked by the laser, using a webcam trained on the bacon to guide the beam. "The well-cooked fat and the fresh taste of the meat can then be experienced at the same time," says Fukuchi.



R. Elakkiya

Third-IT

## Amazing Prime numbers.....



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	331
K. Shanthanalakshmi	3331
Third-IT	33331
	333331
	3333331
	33333331



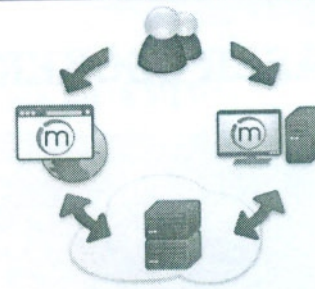


Mozenda is software as a Service (SaaS) company that enables users of all types to easily and affordably extract and manage web data. With Mozenda, users can set up agents that routinely extract data, store data, and publish data to multiple destinations. Once information is in the Mozenda systems users can format, repurpose, and mash up the data to be used in other online/offline applications or as intelligence. All data in the Mozenda system is secure and is hosted in class A data warehouses but can be accessed over the web securely via the Mozenda Web Console. With the addition of a fully featured REST API, Companies can now seamlessly integrate their data automation with the Mozenda application.

Mozenda Data Extractor is a good tool that executes your scraper in the clouds. It works well for large scale scraping and scheduled and concurrent web harvest. The resulting export and publishing services (including email notifications) are features of this screen scraper.

There are two parts of Mozenda's scraper software:

- Mozenda Web Console is a web application that allows you to run your Agents (scrape projects), view & organize your results, and export/publish data extracted (as in the picture left).
- Agent Builder is a Windows application used to build your data extraction project, called Agent.



The data extraction is processed at the optimized harvesting servers in Mozenda's Data Centers, thus relieving the client of loading web resources and threats of IP-address banning if detected.

## Workflow

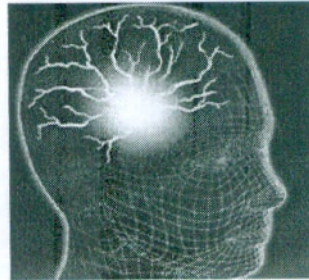
First, in the Agent Builder the target page is loaded in preparation for the data extraction. Then, by clicking, we define the data fields we need. The pop-up windows direct the action to be done with fields chosen.

The Action bar allows you to submit form input and set up for Ajax and iFrames data structures capturing quickly. Mozenda Data Extraction automatically recognizes common data structures such as price, date, address, phone, and fax. We can refine (transform) the text values. As we have defined the fields for scrape, we may test the Agent and save it for future use. The Agent builder user interface gives a good impression as a whole, especially the data preview that works even before an Agent undergoes a test. We have to move the Web console, where all Agents are displayed to run scrapes (Agents), schedule them, and export scrape results.

When our Agent runs, Mozenda screen scraper will download and save the data to a zip file in your account. We can see the results in a customized view, available



through the web console , provides convenient tools for selecting and sorting items. we can export or publish data captured from the web as CSV, TSV, or XML files. This type of report is convenient if we're working with scheduled scrapes and sending results through. FTP to targeted websites.



M .Anitha

Third-IT

## COMPUTATIONAL THEORY OF MIND

In computational mind theory, mind is considered as a kind of computation, which along with information resides in a pattern of data that are independent physical medium that carries them. For instance in telephone system message turns to air pressure, voltage in silicon, light in fiber optics etc.

In computational mind theory, mind is a system of organs of computation designed by natural selection to solve different kinds of problems. The brain processes information and thinking is a kind of computation. The mind body problem that argues with body. This has been controversial debates for generation.

The debate is about beliefs, desires, and images, colorless, odourless and tasteless events of body. We know that mind and matter are made up of different stuffs that interact in a part of brain called penial gland. They are incarnated as symbols which are of about bit of matter like chips in a computer or neuron in brain. They are represented in mental terms. Of course studying the mind without consideration (its medium brain) is irrelevant. Circuits made up of neurons cannot be exactly same as the circuit of silicon. Because silicon is faster than neuron. In computational mind theory mind is a form of computation but computer cannot be a proper metaphor of mind.

- 1) Computers are serial doing one thing at a time; brains are parallel doing million of things at a time.
- 2) Computers are faster, brain is slow.
- 3) Computer parts are reliable, brain parts are noisy.
- 4) Computers have limited number of connections, brain has trillions of connections.



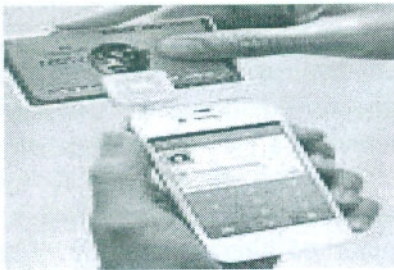
Vidhyaa

Second-IT



## THE SQUARE

A new innovative invention for credit card payments have brought into the market. This is very compact, handy and is attached with our mobile phones. Jack Dorsey, the co-inventor of Twitter, promotes this latest invention and named it as "THE SQUARE".



The square is a small plug-in attachment to our mobile phone that allows us to receive credit card payments. The idea of the Square originated from Dorsey's friend Jim McKelvey who was unable to sell some glass work to a customer because he couldn't accept a particular card being used. Accepting credit card payments for something we're selling isn't always easy. This latest invention uses a small scanner that plugs into the audio input jack on a mobile device. It reads information on a credit card when it is swiped.

The information is not stored on the device but is encrypted and sent over secure channels to banks. It basically makes any mobile phone a cash register for accepting card payments. As a payer, we receive a receipt via email that can be instantly accessed securely online.

We can also use a text message to authorize payment in real time. Retailers can create a payer account for their customers which accelerate the payment process. For example, a cardholder can assign a photo to their card so their photo will appear on the phone for visual identity confirmation. Mobile devices with touch screens will also allow us to sign for goods. There are no contracts, monthly fees, or hidden costs to accept card payments using Square and it is expected the plug-in attachment will also be free of charge.



D. Ilavarasi

Final-IT

## 7 UPCOMING MOBILE OS

1. Ubuntu Mobile
2. Firefox OS
3. BlackBerry 10
4. Android 5.0 (Key Lime Pie)
5. iOS 7
6. Tizen
7. Sailfish OS



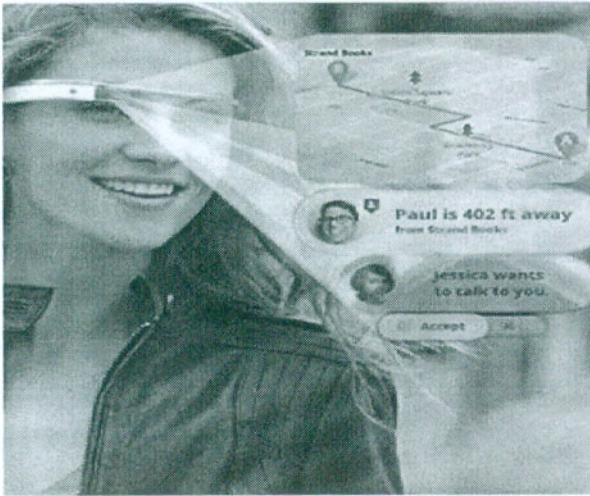
A. Premitha

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## GOOGLE GLASSES

Google Glasses device is essentially a pair of augmented reality goggles that run on Google's Android mobile operating system.



### Checking In

Any Google mobile device would not be complete without the ability to check into locations through Google Plus. So surprise that a check-in function is among the main features on the augmented reality device. You simply check in using hand gestures. But the big idea is that checking will be a seamless effort from now on.

### Video Calling

According to a recent video posted on the Google Glasses Google Plus page, the glasses will be capable of handling sophisticated video calls. According to the video, the Google Glasses user can view transmitted video from another caller from a small screen from inside the glasses.

### Photo Sharing

Just as with Google smart phones, photo sharing will be an integral feature of the Google Glasses device. In the Google Glasses video, the user simply asks the glasses to take a picture of an image ahead. In this case, the image is of graffiti art. In any case, the big idea is that Google Glasses users will be able to take hands-free pictures through using voice-activated commands.

### Music Playing

Google music will also be heavily integrated into the augmented reality glasses. This will likely require that the glasses be connected to a powerful mobile broadband network in order to stream the music. But the idea that users will be able to access the Google Music library from the glasses and stream HD audio files from the cloud is a significant technological advancement. The cool thing is that all music playing processes are based on voice-activated commands like photo sharing.

### Calendar/Appointments Feature

The Calendar and Appointments function is perhaps the most practical element of the new augmented reality device. Users can set the calendar so it always appears in one of the screens on one of the lenses. This allows users to always have access to their current schedule without having to flip through a smart phone device.



R.Karthikeyan

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## GRAVITY LIGHT

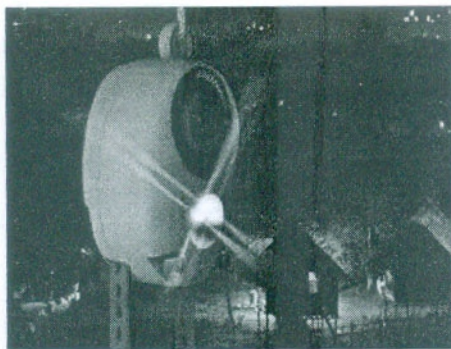
It is a revolutionary new approach to storing energy and creating illumination. It takes only 3 seconds to lift the weight which powers GravityLight, creating 30 minutes of light on its descent. For free.

### Why Gravity Light?

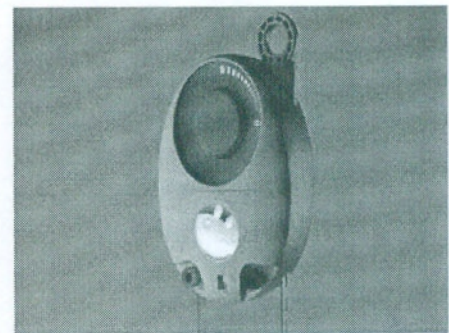
Did you know that there are currently over 1.5 billion people in the World who have no reliable access to mains electricity? These people rely, instead, on biomass fuels (mostly kerosene) for lighting once the sun goes down.

### Gravity Light vs Solar powered lighting.

A commonly held view is that solar powered lighting is the answer to these problems in the developing world. However a number of conflicting factors combine to complicate matters. Solar panels produce electricity only when the sun shines, so the energy needs to be stored in a battery to produce the light when it becomes dark. The amount of energy stored is dependant on the size of the panel, the size of the battery, and how much (if any) sun has shown.



However batteries, panels and lights are expensive, and beyond the reach of people with no savings. Solar lighting projects continue to provide lighting for thousands of people in the developing world, but the spread is slow because the cost is too high for individuals, so they need to be bought and installed by communities instead.



Lower cost self-contained lamps are becoming more widely available, but batteries are the weak link, because they are expensive and deteriorate through use and over time. With GravityLight, however, it only takes a few seconds to lift the weight, which creates enough energy for half an hour of light, whenever it is needed. It is completely clean and green.

### Where will you use yours?

Hang it in the shed or make it into a great porch light, you can clip on a hanging basket or anything weighing about 20lbs. No batteries to drain or replace.



G.Pranavi

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## BI-FI INTERNET

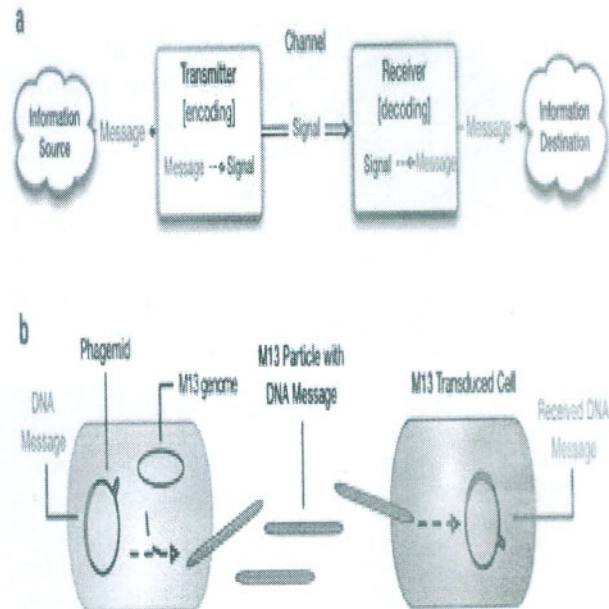
Biological Internet (Bi-Fi) is a breakthrough bioengineering field that centers on a M13 virus' ability to transmit messages between cells. The internet has transformed global communications and now researchers at Stanford University are looking to provide a similar boost to bioengineering with a new process called "Bi-Fi."

The technology uses a safe virus called M13 to increase the complexity and amount of information that can be sent from cell to cell. Cells naturally use chemicals to communicate with the chemical signals typically acting as both the message and the messenger. However, this method of communication is extremely limited in terms of complexity and bandwidth. By separating the messenger and the message, Endy and Monica Ortiz, a doctoral candidate in bioengineering, have been able to greatly increase the amount of data that can be transmitted.

They chose the virus M13 to act as the messenger because when it infects bacteria, it doesn't kill its host but makes itself at home indiscriminately sending out DNA strands that it reproduces within its host. The engineers are able to control these strands of DNA, so custom DNA messages can be wrapped within proteins produced by M13 and sent out to infect other cells. Once they arrive in a new host, they release the packaged DNA message.

The researchers compare their M13-based system to a wireless internet connection that allows cells to send and receive messages but doesn't care about the content of the messages.

"Effectively, we've separated the message from the channel. We can now send any DNA message we want to specific cells within a complex microbial community," said Ortiz. Using DNA to store the message means that it can contain any sort of genetic instruction. M13 is known to have packaged DNA strands containing as many as 40,000 base pairs, which is far in excess of the majority of genetic messages of interest in bioengineering that range from several hundred to many thousand base pairs.



**The M13-based cell-to-cell communication system (bottom) represented with the framework of the Shannon communication system (top)**



Ortiz has also used M13 to broadcast genetic messages between cells that are separated by over seven centimeters (2.7 in) of a gelatinous medium. The researchers believe that their Bi-Fi biological internet could lead to the development of biosynthetic factories consisting of huge masses of microbes collaborating to produce complex fuels, pharmaceuticals and other useful chemicals. Even more exciting, the researchers say that with improvements, the technology could one day be used in more complex three-dimensional programming of cellular systems, such as the regeneration of tissue of organs.



Priyadarshini

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## Amazing Maths

### Numeric Palindrome with 1's

$$1 \times 1 = 1$$

$$11 \times 11 = 121$$

$$111 \times 111 = 12321$$

$$1111 \times 1111 = 1234321$$

$$11111 \times 11111 = 123454321$$

$$111111 \times 111111 = 12345654321$$

$$1111111 \times 1111111 = 1234567654321$$

$$11111111 \times 11111111 = 123456787654321$$

$$111111111 \times 111111111 = 12345678987654321$$

-Magazine team

## NANORESONATORS

### - IMPROVE CELL PHONE PERFORMANCE

Nano resonators are mechanical devices that helps cell phone users avoid the nuisance of dropped calls and slow downloads. The devices are designed to ease congestion over the airwaves to improve the performance of cell phones and other portable devices.

There is not enough radio spectrum to account for everybody's handheld portable device. The overcrowding results in dropped calls, busy signals, degraded call quality and slower downloads. Systems that operate with more sharply defined channels so that more of them can fit within the available bandwidth. To do that you need more precise filters for cell phones and other radio devices, systems that reject noise and allow signals only near a given frequency to pass.

The Purdue team has created devices called nano electro mechanical resonators, which contain a tiny beam of silicon that vibrates when voltage is applied. That the new devices are produced with a nearly 100 percent yield, meaning nearly all of the devices created on silicon wafers was found to function properly.



N.Gaviya

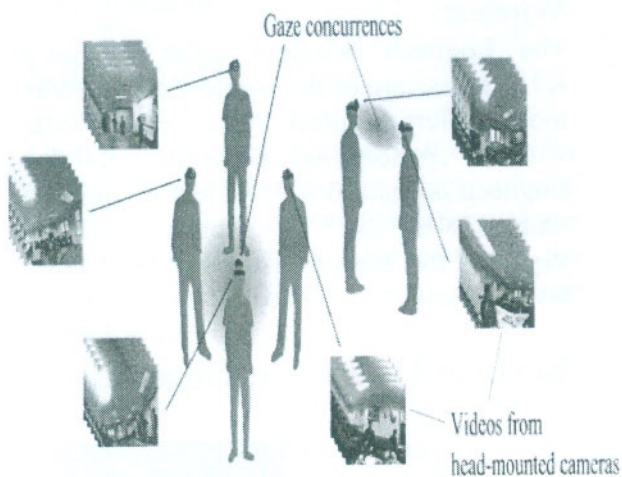
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## 3D SOCIAL SALIENCY FROM HEAD-MOUNTED CAMERAS

Scene understanding is one of important approach to analyze any particular situation. It mainly focuses on physical structure of the scene, what happens and where happens. Social salient is extracting information like who people interact with, where they look, what they attend to.

Consider a situation like if we enter into a party, we quickly look at different people and the groups how they formed, search for personal friends or acquaintances, and choose a group to join. Consider an artificial agent, such as social robot, that enters the same room: how should it interpret the social dynamic environment? The subjectivity of social environments makes the identification of quantifiable and measurable representations of social scenes difficult.



A new method, without any interruption analyzing an social environment with the help of Head mounted cameras. Humans transmit visible social signals about what they find important and these signals are powerful cues for social scene understanding . For instance, humans spontaneously orient their gaze to the target of their attention.

Why Head mounted camera? Estimating 3D gaze concurrences requires accurate estimates of the gaze of people who are widely distributed over the social space. Head mounted cameras instrument people rather than scene.

In the process, one camera is used to estimate each head pose. As a result, 3D pose estimation of head-mounted cameras provides accurate and spatially unbiased estimates of the primary gaze ray. Estimation of 3D social saliency field of a scene and it's done modes from head-mounted cameras.

Videos from the head-mounted cameras are collected and reconstructed in 3D via structure from motion. Each person wears a camera on the head and performs a predefined motion for gaze ray calibration based on our gaze ray model. After the calibration, they may move freely and interact with other people.



Arjun.S

Final-IT



*Trick: 1, 2, 4, 5, 7, 8*

Step1: Choose a number from 1 to 6.

Step2: Multiply the number with 9.

Step3: Multiply the result with 111.

Step4: Multiply the result by 1001.

Step5: Divide the answer by 7.

**Answer:** *All the above numbers will be present.*

SalaiKavyaBala  
Final-IT



## SOLAR POWERED

### keyboard

Logitech is coming out with a solar-powered keyboard that will be free of such hassles. You can stay indoors and the solar powered keyboard will charge itself from indoor lights. They have embedded an integrated power-indicator light that will warn you in



advance about the power status of the keyboard.

The keyboard is still the best input device for typing emails and IMs, updating your Facebook page or posting responses to your favorite blogs and the Logitech Wireless Solar Keyboard K750 is the next big innovation and powered by light but can work in total darkness for up to three months.

### Portability:

1/3-Inch Thick Sleekness and portability are important qualities in marketing an electronic gadget. Logitech has not ignored these important aspects. Their keyboard is only 1/3-inch thick maintain a thin profile.

### Benefits of Cord with Convenience of Wireless:

The Logitech Wireless Solar Keyboard K750 takes care of the wireless connectivity too. It offers Logitech Advanced 2.4 GHz wireless connectivity. They also say that Logitech Advanced 2.4 wireless is equipped with 128-bit AES encryption with the keyboard that ensures the one of the highest levels of security available.

### Keyboard is easy on Fingers:

Logitech calls their keyboard as Logitech Incurve keys. It is a known fact that a concave design, along with incurve keys are easy on the shape of human fingertips. They also say that soft, rounded



edges make it easy for your fingers to glide from key to key. Plus, the tiny Logitech Unifying receiver is small enough to stay in your laptop, so there's no need to unplug it when you move around..

### **SOLAR STEREO SPEAKER:**

Imagine a cool poolside with golden sunlight, lifting music and relaxing time – sounds great, no! Now great music, wireless speakers, and excellent audio quality all these are possible with Devotec Solar Sound 2 Stereo Bluetooth Speakers. Almost all phones, MP3 players and music players can be connected to these speakers wirelessly to get instant clear, resonant music.

### **Portable Speakers:**

No cables, no electricity and awesome music! Yes, all these are what make the Solar Sound 2 Stereo Speakers unique. Of course provisions are there with ports for attaching cable etc – for both charging with a power cord or if the music player does not have Bluetooth.

### **Solar panels:**

On top are solar panels that will charge the built-in battery when kept in direct sunlight. There are three touch-buttons for volume control, changing tracks and powering the speaker system. At the back, there are ports for attaching the cables.



Ragul.S  
Final-IT

### **Interesting Facts:**

- It's impossible to sneeze with your eyes open.
- No word in the English language rhymes with month, orange, silver, or purple.
- Peanuts are one of the ingredients of dynamite.
- There are only four words in the English language which end in 'dous' : tremendous, horrendous, stupendous, and hazardous.
- The winter of 1932 was so cold that Niagara Falls froze completely solid.
- TYPEWRITER is the longest word that can be made using the letters only on one row of the keyboard.
- Tigers have striped skin, not just striped fur.
- The average person's left hand does 56% of the typing.



Shanmathi  
First-IT



## PLACEMENT DETAILS



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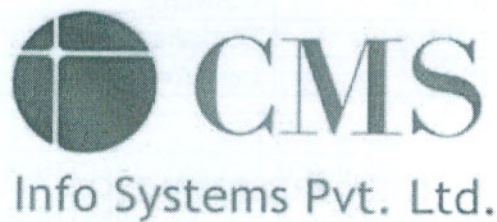
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13	M.GOKULAKRISHNAKUMAR	09BIT110	ggokulkumar@gmail.com
14	M.R.VIVEKNATH	09BIT228	viveknathravichandran@gmail.com



## INNOWIS-THE INTRA-DEPARTMENTAL TECHNICAL SYMPOSIUM

### PAPER PRESENTATION

YEAR	ROLLNO	NAME	PRIZE
III -IT	10BIT101	K.Anandsidharth	1 <sup>st</sup>
	10BIT103	S.Aswinprakash	
II-IT (B)	11BIT055	K.Sudha	2 <sup>nd</sup>
	11BIT058	C.Swarna	
I-IT (A)	12BIT006	D.Akshaya	3 <sup>rd</sup>
	12BIT045	LesAnn Thomas	

### IDEA PRESENTATION

YEAR	ROLLNO	NAME	PRIZE
II-IT (B)	11BIT064	Vinodh.P	1 <sup>st</sup>
	11BIT057	Surya Prakash.M	
III -IT	10BIT101	K.Anandsidharth	2 <sup>nd</sup>
	10BIT103	S.Dhanaraja	
I-IT (A)	12BIT039	Kishore.S	3 <sup>rd</sup>
	12BIT055	Muthukumar.L	

### CODE DEBUGGING

YEAR	ROLLNO	NAME	PRIZE
III -IT	10BIT130	V.Shobana	1 <sup>st</sup>
II-IT (A)	11BIT023	G.Kumaresan	2 <sup>nd</sup>
I-IT (B)	12BIT086	K.Saranya	3 <sup>rd</sup>



**MULTIMEDIA**

YEAR	ROLLNO	NAME	PRIZE
III-IT	10BIT101	S.R.Vishnu Kumar	1 <sup>st</sup>
	10BIT201	G.Bharath	
II-IT	11BIT055	P.Vinodh	2 <sup>nd</sup>
	11BIT058	V.Sethupathy	
II-IT	12BIT006	K.Sudha	3 <sup>rd</sup>
	12BIT045	C.Swarna	

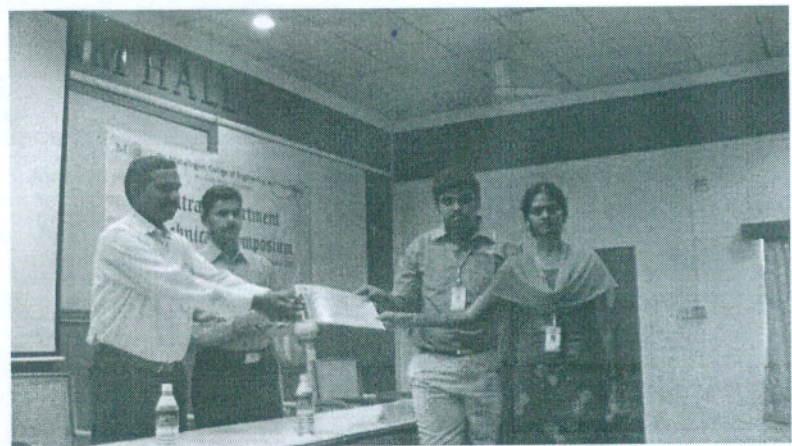
**TECHNICAL QUIZ**

YEAR	ROLLNO	NAME	PRIZE
III-IT	10BIT139	T.Sathyaprakash	1 <sup>st</sup>
II-IT	11BIT041	K.Risvana	
III-IT	10BIT215	V.Sobitha	2 <sup>nd</sup>
I-IT	12BIT086	K.Saranya	
III-IT	10BIT141	K.Deepakmanavalan	3 <sup>rd</sup>
II-IT	12BIT312	G.Ishwarya	

**MARKETING**

YEAR	ROLLNO	NAME	PRIZE
III -IT	10BIT119	Monica.P	1 <sup>st</sup>
	10BIT214	Shanmathy	
	10BIT134	Swarnalatha.K	
	10BIT111	GunaSundari	
III-IT	10BIT124	Ranjith.P	2 <sup>nd</sup>
	10BIT213	Selvavadivel	
	10BIT136	Vishnu Kumar	
	10BIT204	Krishna	
II-IT	11BIT047	Sathya.S	3 <sup>rd</sup>
	11BIT065	Vinodhini.S	
	11BIT003	Bhuvaneshwari.P	
	11BIT025	Madhumitha.M	

## HONOURS AND ACHIEVEMENTS





There is an endless sky in the world; there is an endless achievement of students not only inside the college but also outside the college.

### PAPER PRESENTATION

S.NO	NAME	ROLL NO	COLLEGE	PRIZE
1	M.R.Viveknath	09BIT228	Computer Society of India, Dr.Mahalingam College of Engineering and Technology.	4 <sup>th</sup>
	M.DeepanPrakash	09BIT106		
2	P.Gowtham	10BIT138	SRM University,Chennai.	3 <sup>rd</sup>
	K.Anandsiddarth	10BIT101		
3	T.Selvavadivel	10BIT213	VIT University,Vellore.	2 <sup>nd</sup>
	P.Krishnan	10BIT204		
4	R.Keertana	11BIT021	Computer Society of India, Dr.Mahalingam College of Engineering and Technology.	6 <sup>th</sup>
	P.Bhuvaneshwari	11BIT002		

### TECHNICAL QUIZ

S.NO	NAME	ROLL NO	COLLEGE	PRIZE
1	P.Rajkumar	11BIT039	Computer Society of India, Dr.Mahalingam College of Engineering and Technology.	3 <sup>rd</sup>
2	K.Risvana	11BIT041		1 <sup>st</sup>
3	C.Swarna	11BIT058		3 <sup>rd</sup>

## PARTICIPATION

Participation is important than winning

### PAPER PRESENTATION

S.NO	NAME	ROLL NO	COLLEGE
1	P.Supriya	10BIT132	Bannari Amman Institute of Technology,Sathyamangalam.
	R.Gunasundari	10BIT111	
	M.Anitha	10BIT102	
2	A.Suganya	10BIT218	Dr.Mahalingam College of Engineering and Technology
	C.Pavithra	10BIT223	
3	B.Elakkiya	10BIT107	Sri Eshwar College of Engineering and Technology, Coimbatore.
	K.Gowthami	10BIT110	
4	P.Sowmya	10BIT216	Sri Krishna College of Engineering and Technology, Coimbatore.
	T.Vithya	10BIT220	
5	R.Saranya	10BIT127	Angel College of Engineering Technology,Tirupur.
6	C.Pavithra	10BIT223	Sri Eshwar College of Engineering and Technology, Coimbatore.
	A.Kiruthika	10BIT137	
7	A.Kiruthika	10BIT137	Dr.Mahalingam College of Engineering and Technology.
	A.Divya	10BIT142	
8	M.Priya	10BIT123	Dr.Mahalingam College of Engineering and Technology.
	K.Swarnalatha	10BIT134	
9	P.Gowtham	10BIT138	KGISL Institute of Technology, SRM University,Chennai.
	K.AnandSiddarth	10BIT101	
10	T.Selvavadivel	10BIT213	VIT University,Vellore.
	P.Krishnan	10BIT204	
11	V.Lalitha	10BIT115	Sri Eshwar College of Engineering and Technology, Coimbatore.
	S.Lakshmi	10BIT205	
12	M.K.Gayathri	11BIT007	Computer Society of India, Dr.Mahalngam College of Engineering and Technology.
13	S.Kayalvizhi	11BIT020	
14	R.Kalyani	11BIT015	
15	P.Indhumathi	11BIT013	
16	G.Agalyadarshini	11BIT002	
17	L.Deepika	11BIT004	
18	S.Abinaya	11BIT001	
19	M.Naveena	11BIT031	
20	K.Divya	11BIT005	



21	S.Vinodhini	11BIT065	Computer Society of India, Dr.Mahalngam College of Engineering and Technology.
22	S.Sathya	11BIT047	
23	V.P.Saranya	11BIT044	
24	K.Risvana	11BIT041	
25	A.TamilElakkiya	11BIT059	
26	G.R.Priyavarshini	11BIT035	
27	R.Subhashree	11BIT054	

### PROJECT CONTEST

S.NO	NAME	ROLL NO	COLLEGE
1	B.M.Dhamodharan	10BIT140	Bannari Amman Institute of Technology, Sathyamangalam.
	K.DeepakManavalan	10BIT141	
	J.GaneshKarthick	10BIT203	
	T.SathiyaPrakash	10BIT139	
	S.Santhosh Kumar	10BIT126	
2	V.Sobitha	10BIT215	Indian Institute of Tecnology,Chennai.
	V.Shobana	10BIT130	
3	S.Vaishnavi	10BIT219	Indian Institute of Tecnology,Chennai.
	S.Lakshmi	10BIT205	
	K.S.Mangalanayagi	10BIT116	

### WORKSHOP

S.NO	NAME	ROLL NO	COLLEGE
1	L.Praveen Kumar	10BIT122	SNS College of Technology,Coimbatore.
	R.SuriyaDeepan	10BIT133	
	P.Gowtham	10BIT138	
	K.AnandSiddarth	10BIT101	
	S.Dhana Raja	10BIT105	
	S.AswinPrakash	10BIT103	
2	T.SathiyaPrakash	10BIT139	Dr.NGP Institute of Technology,Coimbatore.
	S.Dhana Raja	10BIT105	
	S.AswinPrakash	10BIT103	

## ASSOCIATION ACTIVITIES

DATE	EVENTS
30-6-2012	Association Inaugural Function
23-7-2012	Hands On Training On ' <b>Photoshop</b> ' For Second year Students
4-8-2012	Inaugural function of Workgroups For 2 <sup>nd</sup> ,3 <sup>rd</sup> ,&Final year Students
7-8-2012	Hands On Training On ' <b>MATLAB &amp;WEKA TOOLS</b> ' For Final year Students
27-8-2012 & 28-8-2012	Two Days Workshop & Hands On Training On ' <b>MY SQL &amp; PHP</b> ' by Mr.M.Sriramadoss Founder,AmachuInfrasoft Services,Chennai
1-9-2012	Function For Welcoming Freshers
1-9-2012	Hands On Training On ' <b>Photoshop</b> ' For Pre-final year Students
8-9-2012	Interaction Program With Alumni(2007-2011) For Final & Pre-final year Students Hands On Training On ' <b>ASP.NET</b> ' For Pre-final year Students
22-12-2012	Guest Lecture On ' <b>SAP</b> ' by Mr.E.Manoj Kumar Software Engineer,IGATE Global Solutions,Bangalore



## CONFERENCE

Batch No	Name	Rollno	Title	College
1	T.Aarathi	09BIT101	Enhancement of speech signal using spectral subtraction and morphological filter	Hotel grand palace Kodaikanal
	S.Tamilselvi	09BIT133		
2	S.Arjun	09BIT103	Efficient spatial frequency based watermarking based on SVD in the DWT domain	JKKN College, Namakkal
	K,Gokulakrishnakumar	09BIT110		
	V.Magendran	09BIT115		
3	G.T.Citra	09BIT105	Cancer discovery using cluster ensemble approach	Hotel grand palace, Kodaikanal
	C.Deepika	09BIT107		
	J.Swathishree	09BIT132		
4	M.DeepanPrakash	09BIT106	Security enhancement in finger print watermarking	Sri Krishna College,Coimbatore
	T.Karthikeyan	09BIT112		
	R.Karthikeyan	09BIT206		
	G.Saravanakumar	09BIT226		
5	S.Gayathri	09BIT108	An efficient approach using image pool and query expansion for one click-image search	Kongu Engineering College, Perundurai
	U.Priyadarshini	09BIT122		
	P.Rajalakshmi	09BIT126		
6	D.Kirubhadevi	09BIT113	Video search re-ranking based on fusing two features	KSR College of technology, Thiruchengode
	R.Mathiarasi	09BIT114		
	V.Poornima	09BIT119		
7	P.Marutheeswari	09BIT116	Modified class reweight in adaboost for class imbalance problem	Tamilnadu engineering college, Coimbatore
	P.Porkodi	09BIT120		
	R.Priyanka	09BIT123		
8	J.Mohammedshakil	09BIT117	Continuous assessment of epileptic seizure with wrist worn biosensor	Sardar raja college of engineering, Thirunalveli
	S.Ragul	09BIT125		
	S.Sudharsan	09BIT131		
	S.Ramesh	09BIT223		
9	A.Nalini	09BIT118	Medical image security using alpha blending technique in wavelet domain	Bannariamman institute of technology, Sathyamangalam
	G.SakthiAbinaya	09BIT128		
10	B.S.Sabetha	09BIT127	Combined seizure index with adaptive multiclass SVM for epileptic EEG classification	SKP college of Engineering and technology, Thiruvannamalai
	M.UmaMaheswari	09BIT135		
11	B.Soundaryaa	09BIT130	Feature Extraction using neighbourhood derivatives in CBIR	Hotel Grand Palace, Kodaikanal
	S.Ishwaryaa	09BIT205		

12	K.Dhivya	09BIT136	Optimal uplink query processing for mobile computing	Sri Ramakrishna engineering college
	K.Selvarani	09BIT139		
	D.Ilavarasi	09BIT220		
13	R.Keerthika	09BIT137	New revolution on creating graphical password using hotspots	Bannariamman institute of technology, Sathyamangalam
	N.Gaviya	09BIT218		
	R.Ramya	09BIT224		
14	S.Sathyanathan	09BIT138	GPS based bus tracking system as an android application	KSR college of technology, Thiruchengode
	N.Vasanth	09BIT216		
	K.Salaikavyabala	09BIT225		
15	V.Avanthika	09BIT202	Aademic talent forecasting using EC4.5 algorithm	Kongu College of engineering, Perundurai
	G.Pranavi	09BIT210		
	K.Salaikavyabala	09BIT211		
	J.Sowmya	09BIT214		
16	A.DhivyaNiranjana	09BIT203	Automatic extraction of abbreviation using web as information source	PSNA college of engineering and technology, Dindugal
	M.S.Ilakkiya	09BIT204		
	P.Nandhini	09BIT207		
	S.Saravanasharmili	09BIT212		
17	B.Nivethitha	09BIT208	Enhancement of speech signal using spectral subtraction and morphological filter	Hotel Grand palace,Kodaikanal
18	V.Shylesh	09BIT213	Content toring and data sharing system for mobile phone through web server	KSR college of technology, Thiruchengode
	Mohammed Mubarak ali	09BIT222		
	D.Venkatesan	09BIT227		
19	S.Deenadhayalan	09BIT217	Attribute based encryption using cloud computing	Tamilnadu engineering college, Coimbatore
	Gunasekaran	09BIT219		
	A.Kamalesh	09BIT221		
	M.R.Viveknath	09BIT228		



## PRAYUDHA – TECHSYM'13

The Battle was filled with the warriors, who were 150 in number, from various colleges. The Technical war was waged proportionally. The accolades were presented to the successful warriors.

### EVENTS

#### 1. Project presentation

#### 2. Paperazzi

(Paper presentation)

#### 3. Kodemanic

(Coding)

#### 4. Pinakkio

(Designing)

#### 5. Checkmate

(Quiz)

#### 6. Pirates of sys

(Tech maze)

#### 7. Adokratz

(Advertisement)

## PRAYUDHA - TECHSYM'13





## HONOURS IN SPORTS

S.NO	NAME	ROLL NO	TROPHY	GAME	PRIZE
1	A.Kamalesh	09BIT221	Zonal	Cricket	Winner
			Inter Zonal		Runner
			University		Participated
2	R.Priyanka	09BIT123	KCT Trophy	Football	2 <sup>nd</sup>
			Inter Zonal		3 <sup>rd</sup>
			University		Participated
3	A.Nalini	09BIT118	Inter Zonal	Football	3 <sup>rd</sup>
			KCT Trophy		2 <sup>nd</sup>
4	P.Porkodi	09BIT120	Inter Zonal	Football	3 <sup>rd</sup>
5	R.Elakkiya	10BIT202	Zonal	High Jump	1 <sup>st</sup>
				Relay (400m)	1 <sup>st</sup>
6	M.Deepa M.NilofarNishath	10BIT104 10BIT120	SNR Trophy	Ball Battminton	3 <sup>rd</sup>
			Zonal		Participated
			Inter Zonal		
7	C.Pavithra	10BIT223	Zonal	Running(400m)	Participated
8	M.Kumaresan	11BIT023	University	Running(1500m)	3 <sup>rd</sup>
9	S.Saravanakumar	11BIT045	Zonal	Hockey	Winner
10	S.Vinothini	11BIT042	Inter Zonal	Hockey	3 <sup>rd</sup>
11	P.RamaRohini	11BIT040	KCT Trophy	Hanball	Participated
	K.Suganya	11BIT056			
12	S.Vasuki	12BIT109		Volley Ball	Participated
13	S.Rupavathi	12BIT081	Inter-Zonal	Hockey	Participated
14	R.Nandhini	12BIT058	Inter-Zonal	Hockey	3 <sup>rd</sup>
			Inter-Zonal	Foot ball	3 <sup>rd</sup>
15	C.KokilaVani	12BIT040	Dr.MCET	Hockey	Participated
16	S.Gowthami	12BIT023		Foot ball	Participated
17	S.Karthi	12BIT027		Cricket	2 <sup>nd</sup>
18	A.Dharani	10BIT106		Flag Area	1 <sup>st</sup>
19	R.Gunasundari	10BIT111		Line Area	1 <sup>st</sup>
20	S.Keerthana	10BIT113		Drawing and Yoga	2 <sup>nd</sup>
21	N.G.MathymugaAanandhalakshmi	10BIT117		Drill Competition	1 <sup>st</sup>
22	M.NithyaPriyadharshini	10BIT207		Kho-Kho	Runner
23	K.Praveen Kumar	10BIT122		Dance	3 <sup>rd</sup>

## TECHNICAL DOMAINS

### DOMAIN NAME- WEB TECHNOLOGY

#### ACTIVITIES

- Photoshop (Hands on)
- VB.net(Hands on)
- Html (Hands on)
- Asp.net(Hands on)

### DOMAIN NAME- OPEN SOURCE

#### ACTIVITIES

- Linux OS installation
- Linux basic commands(Hands on)
- Android Tool installation(SDK+ADT+Eclipse)

### DOMAIN NAME- MOBILE APPLICATION

#### ACTIVITIES

- Basics of mobile computing & its tools
- Net Beans IDE(Hands on)
- Net Beans-Visual MIDlet(Hands on)
- My Eclipse (Hands on)
- Developing game in J2ME (Hands on)

### DOMAIN NAME-CLOUD COMPUTING

#### ACTIVITIES

- Introduction about cloud computing
- Cloud sim-Overview
- Installation process of ubuntu using Vmare
- PHP Handson training



## DOMAIN NAME-NETWORKS AND SECURITY

### ACTIVITIES

- Basics of Networks and Security
- Networks and Security tool-NS2,Qualnet
- Watermarking and MAT lab concepts
- Demonstration of some network projects

## DOMAIN NAME- INFORMATION PROCESSING

### ACTIVITIES

- Introduction about MAT lab
- MAT lab (Hands on)
- Basics of WEKA tool
- Weka tool (Hands on)

## DOMAIN NAME- DATA MINING

### ACTIVITIES

- Data mining basics
- Scope of Data mining & introduction about WEKA tool
- WEKA tool (Hands on)
- Description about data mining tools

## DOMAIN NAME- SPEECH AND INTERFACE

### ACTIVITIES

- Basics on Speech Processing
- Discussion about tools in Speech
- MAT lab Basics
- MAT lab project description

## EVENTS CONDUCTED UNDER DOMAINS

### Banner Designing:

S.no	Roll No	Name	Prize
1.	10BIT201	G.Bharath	First
2.	11BIT042	B.Sakthisaravanan	Second
3.	10BIT217	R.SreParthiban	Third

### Certificate Designing:

S.No	Roll No	Name	Prize
1.	11BIT005	K.Dhivya	First
2.	10BIT133	R.SuriyaDeepan	Second
3.	11BIT024	C.Logesh	Third

### VB Designing (Front End):

S.No	Roll No	Name	Prize
1.	10BIT142	A.Divya	First
2.	10BIT143	N.UthayaPrakash	
3.	10BIT201	G.Bharath	
4.	10BIT217	R.SreParthiban	
5.	10BIT218	A.Suganya	
6.	10BIT219	S.vaishnavi	Second
7.	10BIT211	K.Santhana Lakshmi	
8.	10BIT212	K.Saranya	
9.	10BIT216	P.Sowmya	Third
10.	10BIT131	S.Suganya	
11.	10BIT132	P.Supriya	
12.	10BIT133	R.SuriyaDeepan	
13.	10BIT202	R.Elakkiya	
14.	10BIT203	J.GaneshKarthick	
15.	10BIT204	P.Krishnan	
16.	10BIT226	V.Venkatesh	
17.	10BIT220	T.Vithyaa	
18.	10BIT222	K.Ilakkia Tamil	
19.	10BIT223	C.Pavithra	



## PHOTOS



Ingruation of IT Association - XIPHONIX



Senior Interaction (2011 passed-out)



## WORKSHOPS

- Workshops and Hands on Training on “MYSQL and PHP” by Mr.M.Sriramadosh Founder, Amachuinfrasoft services, Chennai.

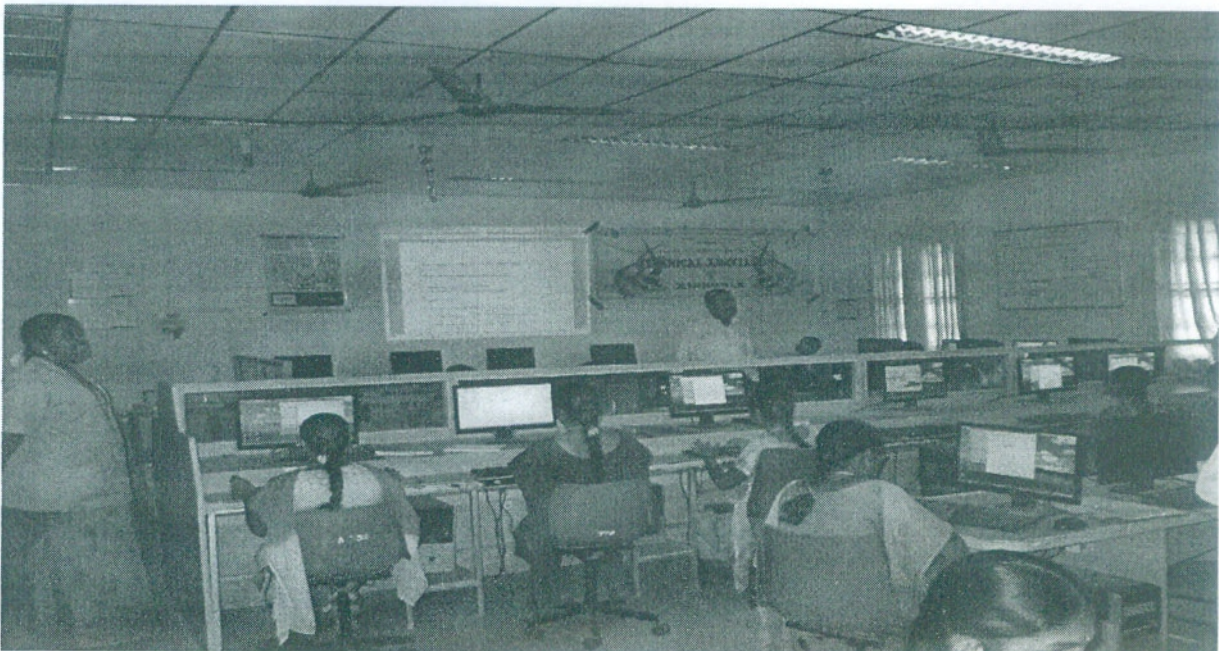




- Workshop and hands on practice on MATLAB by Prof. and Head Dr.S.Ramakrishnan



- Workshop and hands on practice on WEKA by Asst. Prof. L.Meenakshi, Asst. Prof. N.Krishnaraj, Asst. Prof. E.Prabhakar



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C.Pavithra

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S.Kiruthika

Gowthami

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D.M.Guhan

S.Karthickkrishnan

V.Sethupathy

R. Subashri



# DEPARTMENT OF INFORMATION TECHNOLOGY

## UNIVERSITY RANK HOLDERS BATCH 2008-2012



1.



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CGPA 9.25  
**RANK 19**



2.



SUBHA E  
CGPA 9.25  
**RANK 19**

3.



THEIVANAI M  
CGPA 9.18  
**RANK 25**

4.



RATHI PRIYA S  
CGPA 9.08  
**RANK 35**

5.



PRIYA DHARSHINI V  
CGPA 9.06  
**RANK 37**

6.



GAUTHAM GUPTA P  
CGPA 9.04  
**RANK 39**

7.



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**RANK 41**

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**RANK 43**

9.



INDHIRANI M  
CGPA 8.99  
**RANK 44**



# TECHNICAL ASSOCIATION



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