

YLECTRAZE

version 1.0

Wisdom of technology

*Department of
Electronics and Communication Engineering*

News letter

Spectrum

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Dr. Mahalingam College of Engineering and Technology

Department of Electronics & Communication Engineering

Congratulates all the Rank Holders of 2008-2012 Batch



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SEVUGAPRIYA G
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R A N K 13
PRATHEEPA .B
CGPA - 9.38



R A N K 19
ARAVINDHAN .J
CGPA - 9.32



R A N K 19
VIJAISHREE .R
CGPA - 9.32



R A N K 34
DINESH .S
CGPA - 9.17



R A N K 38
PREETHI SRI .K
CGPA - 9.13



R A N K 45
KAVITHASREE .M
CGPA - 9.06



Message from the Secretary

Prof. C. Ramasamy., M.E., F.I.V.,



It is a matter of great happiness to me to know that the students of Electronics and Communication Engineering , MCET are bringing out the Version-1 of the department newsletter "Ylectraze v1.0" . As I understand, this magazine is intended to bring out the hidden literary talents in the students and also to inculcate leadership skills among them. The students can share their knowledge and ideas through this medium. Keeping this in mind, I expect the contributions to this magazine to be of high standard and quality.

I wish all the success for this venture.

Sd/- Prof C .Ramasamy

Message from the Director (Academic)

Dr. S. Vijayarangan., M.E., Ph.D., FIE.



I feel extremely delighted to observe that the department of ECE is coming out with a magazine this year also with the dedicated and committed efforts of the faculty and the students of The Editorial Board. The activity depicts the commitment and involvement of students and their thirst for knowledge.

I congratulate the efforts of the members of The Editorial Board in bringing out this issue of the magazine. It is because of their selfless and untiring efforts that we see the magazine enriched with variety of articles.

Sd/- Dr S. Vijayarangan

Message from the Principal

Dr. S. Chenthur Pandian, B.Sc., LL.B., M.E., Ph.D., MISTE. FIE. MIEEE. (USA)



The magazine of the department is the reflection of the creativity of the students, involved in multifarious activities. It speaks about their imaginative creativity through the medium of a language given in literary and artistic shape.

I feel gratified to see that the department is doing its best in carrying out the mission of grooming the students as such professionals who are not only competent enough to combat the challenges in their life but also become good human beings with moral excellence and social sensitivity

Sd/- Dr. S Chenthur Pandian

From the Chief Editor's Pen

Dr.R.Sudhakar B.E., M.E., Ph.D



I feel privileged in presenting the first issue of our department magazine. I would like to place my gratitude and heartfelt thanks to all those who have contributed to make this effort a success. My special thanks to the Management, for their guidance which enabled me to bring out this edition.

Our efforts have been to include enough articles, endowed with variety of subjects, in this magazine.

I extend my sincere thanks to the entire team of the Editorial Board for their constant exertion and support in bringing out the magazine in the present form.

Sd/- Dr. R.Sudhakar

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Your Past, Present & Future

An 80 year old man was sitting on the sofa in his house along with his 45 year old highly educated son. Suddenly a crow perched on their window. The Father asked his Son, "What is this?" The Son replied "It is a crow". After a few minutes, the Father asked his Son the 2nd time, "What is this?" The Son said "Father, I have just now told you It's a crow". After a little while, the old Father again asked his Son the 3rd time, "What is this?" This time some expression of irritation was felt in the Son's tone when he said to his Father with a rebuff, "It's a crow, a crow". After a while, the Father again asked his Son the 4th time, "What is this?" This time the Son shouted at his Father, "Why do you keep asking me the same question again and again, although I have told you so many times 'IT IS A CROW'. Are you not able to understand this?" A little later the Father went to his room and came back with an old tattered diary, which he had maintained since his Son was born. On opening a page, he asked his Son to read that page. When the son read it, the following words were written in the diary:-

"Today my little son aged three was sitting with me on the sofa, when a crow was sitting on the window. My Son asked me 23 times what it was, and I replied to him all 23 times that it was a Crow. I hugged him lovingly each time he asked me the same question again and again for 23 times. I did not at all feel irritated I rather felt affection for my innocent child".

If you chase two rabbits, you will not catch either one.

~Russian Proverb

While the child asked him 23 times "What is this", the Father had felt no irritation in replying to the same question all 23 times and when today the Father asked his son the same question just 4 times, the Son felt irritated and annoyed.



So if your parents attain old age, do not repulse them or look at them as a burden, but speak to them a gracious word; be cool, obedient, humble and kind to them. Be considerate to your parents. From today say this aloud, "I want to see my parents happy forever. They have cared for me ever since I was a little child. They have always showered their selfless love on me.

"They crossed all mountains and valleys without seeing the storm and heat to make me a person presentable in the society today". Say a prayer to God, "I will serve my old parents in the BEST way. I will say all good and kind words to my dear parents, no matter how they behave.



M. Anbarasan
III B.E ECE

10 ways to be happy

Very few people stop long enough to ask themselves a very important question such as "what do I really want?" Yet, when they do take the time to research, they always come back with the same answer, "I want to be happy! "Happiness is making headlines, selling books and inspiring millions of people. Happy people seem to thrive. They are genuinely more creative and productive in life. Not only that, happy people are healthier people and they enjoy a better life than those that tend to always be grumpy.

Here are ten suggestions to stay on the happy side of things.

1. Be less virtual. Spend more of your time with other people than you spend alone. Quality relationships offer you more opportunities to laugh and enjoy yourself....
2. Show appreciation by counting your blessings and keeping a list of the things you are grateful for daily.
3. Recall every positive experience you encounter during the day, even the small Moments
4. Think memorable thoughts. Memories of good times with love ones or friends last forever.
5. Be humorous. Don't be afraid to laugh out loud.
6. Release your stress by going to your perfect day in your mind. A place where you always feel calm and happy doing and being your happiest.
7. Be Optimistic. See the glass half full. Always look on the bright side of things.
8. Be creative. Use your creative inner expression. Think back of the things you love to do that seems to make you lose track of all time. Things like painting, dancing, poetry, hiking, etc. Joyful expressions bring happiness.

9. Do good. Show acts of kindness each day, however small it may be, do good.

10. Seize the Moment. Now is the time to celebrate, take someone to lunch, buy those shoes, bake the cake and be happier today!

By simply putting on a happy face makes you not only look better but feel better. Smiling actually relaxes your face muscles. When you take the steps to be happier yourself, you are far better able to make others happier too. As, Wayne Dyer says, "there is no way to happiness, happiness is the way!"



B. Loganayaki
III B.E ECE

Quotable Quotes

Education is the best friend. An educated person is respected everywhere. Education beats the beauty and the youth.

- Chanakya

Do not anticipate trouble, or worry about what may never happen. Keep in sunlight.

- Benjamin Franklin

Time changes everything except something within us which is always surprised by change

- Thomas Hardy

Electronic Facts

- Electronics are the basis of many modern technologies, from hi-fi systems to missile control systems.
- Electronics are systems that control things by automatically switching tiny electrical circuits on and off.
- Transistors are electronic switches. They are made of materials called semiconductors that change their ability to conduct electricity.
- Electronic systems work by linking many transistors together so that each controls the way the others work.
- Diodes are transistors with two connectors. They control an electric current by switching it on or off.
- Triodes are transistors with three connectors that amplify the electric current (make it bigger) or reduce it.
- A silicon chip is thousands of transistors linked together by thin metal strips in an integrated circuit, on a single crystal of the semiconductor, silicon.
- The electronic areas of a chip are those treated with traces of chemicals such as boron and phosphorus, which alter the conductivity of silicon.
- Microprocessors are complete Central Processing Units on a single silicon chip.



J Sasi
II B.E ECE

Computer Facts

- Part of a computer's memory is microchips built in at the factory and known as ROM, or read-only memory. ROM carries the basic working instructions.
- RAM (random-access memory) consists of microchips that receive new data and instructions when needed.
- Data can also be stored as magnetic patterns on a removable floppy disk, or on the laser-guided bumps on a CD (compact disc) or DVD (digital versatile disk).
- At the heart of every computer is a powerful microchip called the central processing unit. The CPU performs logical and mathematical operations on data, within the guidelines set by the computer's ROM. It carries out programs by sending data to the right place in the RAM.
- Computers store information in bits (binary digits), either as 0 or 1. The bits 0 and 1 are equivalent to the OFF and ON of electric current flow. Eight bits make a byte. A kilobyte is 1000 bytes; a megabyte (MB) is 1,000,000 bytes; a gigabyte (GB) is 1,000,000,000 bytes; a terabyte (TB) is 1,000,000,000,000 bytes.
- The US Library of Congress's 70 million books could be stored in 25 TB of computer capacity.
- A CD can hold about 600 MB of data — approximately 375,000 pages of ordinary text.



K.Prakash
IV B.E ECE

Hydrogen Facts

- Hydrogen is the lightest of all gases and of all elements. A large swimming pool full of hydrogen would weigh just 1 kg.
- Hydrogen is the smallest and simplest of all atoms, with just one proton and one electron.
- Hydrogen is the first element in the Periodic Table. It has an Atomic Number of 1 and an atomic mass of 1.00794.
- One in every 6000 hydrogen atoms has a neutron as well as a proton in its nucleus, making it twice as heavy. This heavy hydrogen atom is called deuterium.
- Very rare hydrogen atoms have two neutrons as well as the proton, making them three times as heavy. These are called tritium.
- Hydrogen is the most common substance in the Universe, making up over 90% of the Universe's weight.
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- Hydrogen is the most common substance in the Universe, making up over 90% of the Universe's weight.



E.Allen Winfred Raj
IV B.E ECE

Did you know that...?

- Months that begin on a Sunday will always have a "Friday the 13th".
- Like fingerprints, everyone's tongue print is different!
- If counted 24 hours a day, it would take 31,688 years to reach one trillion
- A giraffe can clean its ears with its 21 inch tongue.
- A cockroach can live several weeks with its head cut off – it dies from starvation!
- The first product to have a bar code was Wrigleys Chewing gum
- There is a city called Rome on every continent

WICAB BRAINPORT
(Vision through tongue)

The Wicab brainport is the invention of neuroscientists from Middleton for those who are blind or those with extremely low vision, the non-surgical BrainPort vision device is an investigational assistive device for orientation, mobility, object identification and spot reading. It enables perception of visual information using the tongue and camera system as a paired substitute for the eye. Visual information is collected from a video camera and translated into gentle electrical stimulation patterns on the surface of the tongue. Users describe it as pictures drawn on their tongue with champagne bubbles. With training users may perceive shape, size, location and motion of objects in their environment.

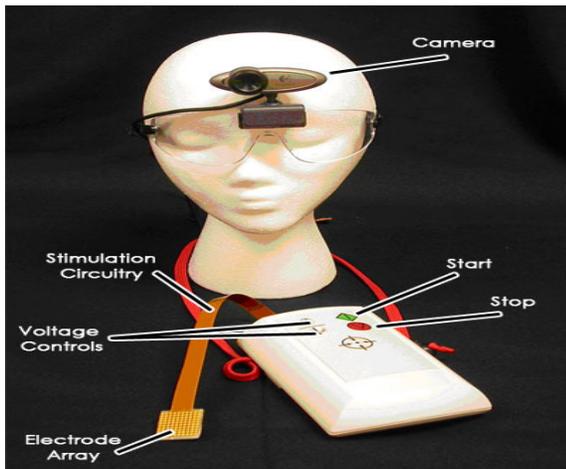
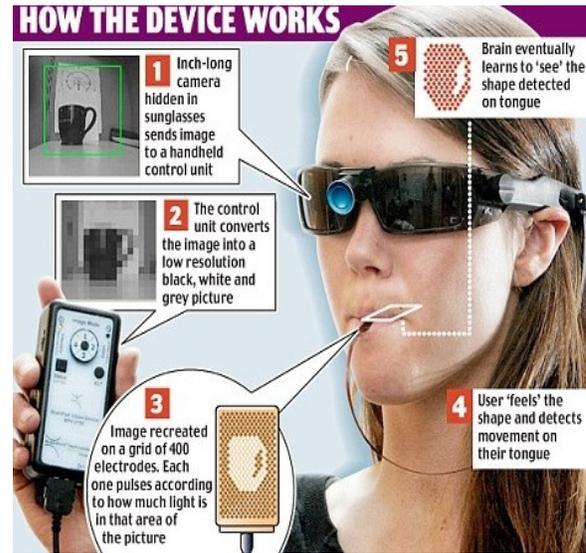


Fig. The Wicab BrainPort

HOW BRAINPORT WORKS

The Wicab BrainPort collects information gathered by a small digital camera mounted on a pair of glasses and then transmits it to a "lollipop" electrode array which the user attaches to their tongue.



The device's digital camera sends the light information to a base unit that has the size of a usual mobile phone. Afterwards the small base unit translates the light information into electrical impulses, thus substituting retina's function. Then the base unit transmits that information to a set of 400 microelectrodes that are positioned on the paddle placed on the user's tongue. The article in Scientific American explains that the microelectrodes excite the nerves on the surface on a person's tongue.

It is also worth mentioning that the base unit of the device includes such functions as **zoom control, light settings control and intensity.**



K.Fathima Nasreen
III B.E ECE

ELECTRONIC COTTON

Wearable computers just moved a stitch closer to reality with the development of cotton fiber electric circuits and transistors. An international team of scientists from the United States, Italy and France have rendered cotton into field-effect transistors and electromechanical transistors by coating the threads with a mixture of materials. The new high-tech cotton yarn is in effect a flexible textile semiconductor, so t-shirts that double as computers could be right around the corner.

DESCRIPTION:

Each cotton fiber is coated with a mix of gold nanoparticles, followed by a polymer and waterproof glycol coat. The resulting thread can be sewn, woven and bent into flexible clothing and fabrics. The coating process is not much more complicated than standard dyeing processes, and it yields flexible threads with elasticity.

This conducting yarn creates exciting new possibilities for computerized clothing. Rather than implanting garments with bulky chips or printed circuits, the entire fabric would be made up of one massive network of interconnections.



The thread could also be used to make up a bevy of safety-focused garments that detect radiation, toxic substances, and air pollution – these clothes could be used in disaster situations as part of standard monitoring equipment. The healthcare industry could also benefit from the yarn by creating shirts that monitor heart beats, blood pressure, and other functions. Personal devices could also become completely integrated into clothing – imagine if your jacket was also a GPS system, a music source and smart phone? The cotton conductor's development is an exciting step towards interactive clothing that goes beyond keeping us warm.



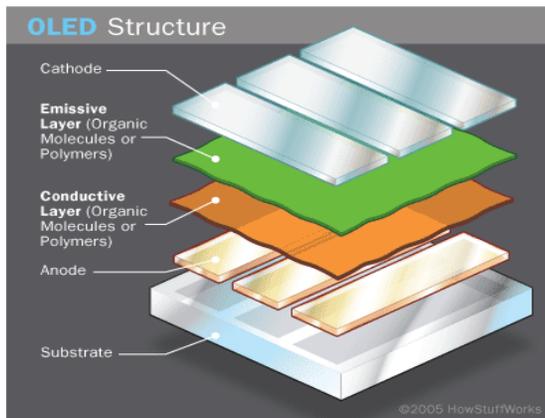
N.Sathish Kumar
III B.E ECE

Poetry Bits

*Life is mostly forth and bubbles,
Two things stand like stone,
Kindness in another's trouble,
Courage in your own.*

-Gordon, Adam Lindsay

ORGANIC LIGHT EMITTING DIODE



A typical OLED is composed of a layer of organic materials situated between two electrodes, the anode and cathode, all deposited on a substrate. The organic molecules are electrically conductive as a result of delocalization of pi electrons caused by conjugation over all or part of the molecule. These materials have conductivity levels ranging from insulators to conductors, and therefore are considered organic semiconductors. The highest occupied and lowest unoccupied molecular orbital (HOMO and LUMO) of organic semiconductors are analogous to the valence and conduction bands of inorganic semiconductors.

Features:

- OLED displays can be fabricated on flexible plastic substrates leading to the possibility of flexible organic light-emitting diodes being fabricated or other new applications such as roll-up displays embedded in fabrics or clothing.
- OLED pixel colours appear correct and unshifted, even as the viewing angle approaches 90° from normal.

- OLEDs can also have a faster response time than standard LCD screens.

COMMERICAL USES:

- Philips Lighting have made OLED lighting samples under the brand name "Lumiblade" and Novald AG based in Dresden, Germany, introduced a line of OLED desk lamps called "Victory" in September, 2011.
- OLEDs have been used in most Motorola and Samsung colour cell phones, as well as some HTC, LG and Sony Ericsson models. Nokia has also introduced some OLED products including the N85 and the N86 8MP, both of which feature an AMOLED display.
- OLED technology can also be found in digital media players such as the Creative ZEN V, the iriver clix, the Zune HD and the Sony Walkman X Series.

ADVANTAGE:

- Lower cost in the future
- Light weight & flexible plastic substrates
- Wider viewing angles & improved brightness
- Better power efficiency
- Response time



N.Kavin
III B.E ECE

ASK A QUESTION????

WHY DOES THE GRID FAIL WHEN EXCESSIVE POWER IS DRAWN FROM IT?

Electricity cannot be stored. Stable voltage and frequency are two important factors that contribute to the effective functioning of the grid. The standard alternating current frequency in India is 50 hertz. Excessive drawing of power results in reduction of voltage and frequency in the grid. Even though perfect matching of generation and demand on the grid cannot be achieved in all occasions practically, the load dispatch centers see to that the deviation is not much. When the demand is more and generation is less, the frequency falls below 50 Hz and vice versa. Normal variation in the frequency is 50 Hz plus or minus 1 %.if it goes below that, it will cause excessive damage to the turbines.

IS IT!!!!

If two of us have 1% excess of electrons than protons, separated by a distance of 1m, then the electric field between us is 4 billion times greater than the gravitational field and the electric force between us can lift the earth!!!



Santhine
II B.E ECE

What they feel!

- Things should be made as simple as possible, but not any simpler.
-**Albert Einstein**
- If I have seen further it is by standing on the shoulders of giants.
-**Isaac Newton**
- Just because something doesn't do what you planned it to do doesn't mean it's useless.
-**Thomas Alva Edison**
- A good scientist is a person with original ideas. A good engineer is a person who makes a design that works with as few original ideas as possible
- **Freeman Dyson**
- "To err is human, but to really foul things up you need a computer."
-**Paul Ehrlich**
- One machine can do the work of fifty ordinary men. No machine can do the work of one extraordinary man.
-**Elbert Hubbard**

Quote of a Great Man

"You must be the change you wish to see in the world."— Mahatma Gandhi

VIRTUAL KEYBOARD



On a desktop PC, one purpose of a virtual keyboard is to provide an alternative input mechanism for users with disabilities who cannot use a physical keyboard. Another major use for an on-screen keyboard is for bi- or multi-lingual users who switch frequently between different character sets or alphabets. Although hardware keyboards are available with dual keyboard layouts (e.g. Cyrillic/Latin letters in various national layouts), the on-screen keyboard provides a handy substitute while working at different stations or on laptops which seldom come with dual layouts.

The standard on-screen keyboard utility on most touch screen systems allows [hot key] switching between layouts from the physical keyboard (typically alt-shift but this is user configurable), simultaneously changing both the hardware and the software keyboard layout. In addition, a symbol in the Systray alerts the user to the currently active layout.

Virtual keyboards are commonly used as an on-screen input method in devices with no physical keyboard, where there is no room for one, such as a pocket computer, personal digital assistant (PDA), tablet computer or touchscreen equipped mobile phone. It is common for the user to input text by tapping a virtual keyboard built into the operating system of the device. Virtual keyboards are also used as features of emulation software for systems that have fewer buttons than a computer keyboard would have.

SECURITY CONSIDERATION

Virtual keyboards may be used in some cases to reduce the risk of keystroke logging. For example, Westpac's online banking service uses a virtual keyboard for the password entry. It is more difficult for malware to monitor the display and mouse to obtain the data entered via the virtual keyboard, than it is to monitor real keystrokes. However it is possible, for example by recording screenshots at regular intervals or upon each mouse click



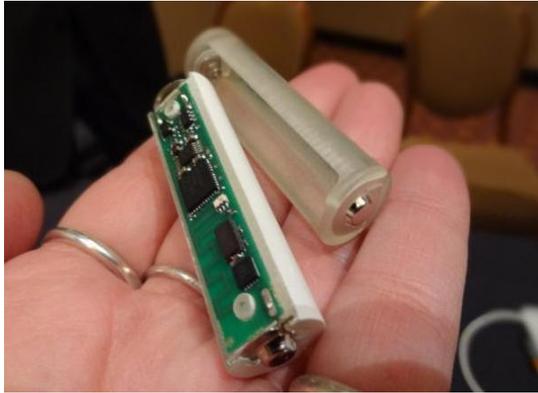
S.Arun Vijay
III B.E ECE

TETHERCELL IS AA BATTERY WITH

*If I have seen further it is by standing
on the shoulders of giants.*

-Isaac Newton

BLUETOOTH



To this day, the name Bluetooth brings back bad memories of the wireless cell phone earpiece that was more personal statement than practical tool. It seemed as if every small-time baller had to show he was successful enough to own one and in demand enough to keep it on him all the time, even when out to dinner with his girlfriend's parents.

But Bluetooth has come of age. It has become the muse of several start-ups and established companies that are finding new and creative ways to take advantage of Bluetooth's drastic uptick in efficiency, from the Nike Fuel band to the Pebble Smart watch, which we previously featured on "This Could Be Big."

We speak with a start-up out of Southern California called Tethercell, whose founders, Trey Madhyastha and Kellan O'Connor, are former rocket scientists who designed mechanical and fluid systems for the Falcon 9 rocket.

They were at CES this year, showcasing their new technology, which brings the tried-and-trusted AA battery into the 21st century. I think in general we look at the AA battery like a good piece of fruit, something that is fine as it is and best left alone. But where we saw a peach, they also saw a grill and some vanilla ice cream.

Tethercell is a plastic case the size of an AA battery, embedded with Bluetooth 4.0, which is then powered by an AAA battery that fits inside the plastic case. The Bluetooth-enabled battery is then synced with an app on your phone that allows you to turn the device on and off, set a timer and even monitor the amount of power remaining.

Why does your humble standard battery need Bluetooth?

The answer is simple, to make it smarter. Manufactured by Tetherboard, the Tethercell is sized as an AA battery but it holds an AAA battery inside its casing along with the Bluetooth chip. Although the enclosed AAA battery might not have enough juice, the smart battery makes sure that this limited energy is properly utilized. For more power a Tethercell can also be used on a system of multiple batteries. Since the battery has Bluetooth it warns you beforehand when the battery is about to run out. You can also use your smartphone to control its power. So whether your siblings have managed to snatch the TV remote control from your hands, you can switch off the power on the batteries inside the remote control and letting them know you still have the upper hand. The innovation is still in a prototype stage.



M.Sureshkumar
II B.E ECE

NEW TRANSISTOR, MADE FROM DIAMOND

Scientists at the Tokyo Institute of Technology have developed a new type of transistor – made from diamond – which could prove valuable for high-power applications.

Transistors are usually made from semiconductors – materials that allow electric current to flow through them only under certain controllable circumstances.

Researchers are looking into the possibility of using doped diamond as semi-conductors in order to create hard-wearing transistors with a wide band gap, high thermal conductivity and the ability to withstand high electric fields without breaking.

Researchers in Japan have succeeded in fabricating a new design of transistor using diamond doped with phosphorus and boron. The new transistor operates accurately at high temperatures and can prove useful in power devices.

Junction field-effect transistors (JFETs) work by altering the conductivity of the channel through which the current flows.

They built up JFETs by doping diamond with impure gases containing either boron or phosphorus, during the chemical vapour deposition process. Phosphorus has five free electrons as opposed to diamond's four, so every atom effectively adds an extra electron (n-type doping). Boron, on the other hand, has only three electrons so every atom creates a 'hole'.

The team created the desired shape and structure of each transistor. The flow channel was made up of p-type diamond, with the n-type diamond making a unique structure of two gates placed on either side of the channel.

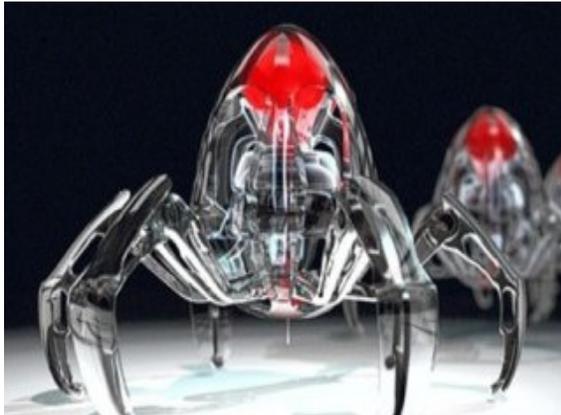
When open, the p-type channel is full of holes so there is plenty of space for the current to flow through the holes. But once a voltage is passed simultaneously through the n-type gates, the holes are filled in to create a depletion layer that closes off the channel to current. The flow of current can therefore be carefully controlled according to the voltage passing through the gates. This is the first transistor of its kind to be made from diamond and to function accurately even at higher temperatures. The ability of the lateral-gated diamond transistors to withstand high currents and high voltages when stacked vertically means the new devices could be very valuable in power applications.

Diamond junction field-effect transistors (JFETs) were fabricated by the selective growth of phosphorus-doped n^+ -type diamond. The n^+ diamonds were grown at the sidewalls of a boron-doped p-type channel, and lateral pn junctions were formed under optimized conditions of microwave plasma chemical vapor deposition. We confirmed that the drain current could be well modulated by controlling the depletion layers in the p-channel, and the devices turned into the off-current state when the channel was closed by the depletion layers. JFETs showed a very low leakage current in the 10^{-15} A regimes, high on/off ratios of 10^7 – 10^8 , and steep subthreshold swings of 95–120 mV/decade.



S.Sachithanandan
III B.E ECE

ROBOTIC NANO SPIDERS MADE OF DNA MOLECULES



A group of scientists from Columbia University managed to invent extremely small spider robots measuring about 4nm across. If you wish to compare, these Nano robots are about 100,000 times smaller than the diameter of a human hair.

SPIDER ROBOTS:

It would be interesting to note that the spider robots are made of DNA molecules. They can walk, turn right and left and create their own products. Developed at the molecular level, the robots represent DNA walkers, featuring legs to walk autonomously, though very slow - about 100nm in 30 meters - 1 hour.

In order to observe the spider robots scientists used atomic force microscopy. The molecular robots managed to attract a lot of attention due to the fact that they can be programmed to sense the environment and react accordingly. For example, they can detect disease markers on a cell surface, identify whether it is a cancerous one and then bring a compound to kill it, if necessary, reports Daily Mail.

Researchers consider that their latest invention is an important step in molecular robotics. Although today this field cannot

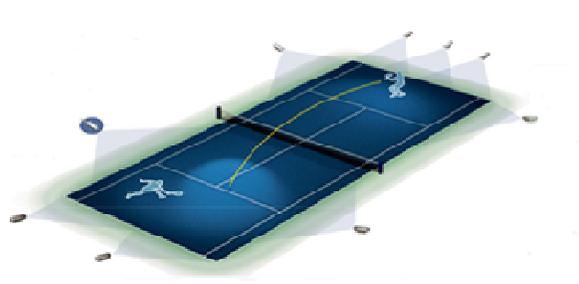
boast many great inventions, scientists and engineers believe that in the near future it could become one of the most important industries that could create devices for various medical applications.



P.Vignesh
III B.E ECE

ELECTRONIC EYE

Some tennis players can serve a ball at 200km/h, which is too fast for the eye to follow clearly. In professional matches, Lines-men and umpires rely on an “electronic eye” to tell them if a serve has crossed a line or not. The system sends an infra-red beam along the service line, about 15mm above the ground. If the serve crosses the beam, a microchip activates a warning bleeper and a red light in the linesman’s box



V.Thangamuthu
III B.E ECE

SMART ANTENNA

Smart antennas (also known as adaptive array antennas, multiple antennas and, recently, MIMO) are antenna arrays with smart signal processing algorithms used to identify spatial signal signature such as the direction of arrival (DOA) of the signal, and use it to calculate beam forming vectors, to track and locate the antenna beam on the mobile/target.

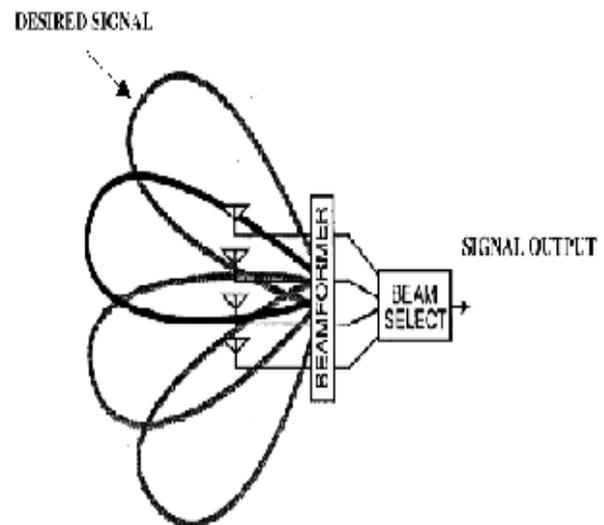
Smart antenna techniques are used notably in acoustic signal processing, track and scan RADAR, radio astronomy and radio telescopes, and mostly in cellular systems like W-CDMA and UMTS

Smart antennas have two main functions: DOA estimation and Beam forming.

The smart antenna system estimates the direction of arrival of the signal, using techniques such as MUSIC (Multiple Signal Classification), estimation of signal parameters via rotational invariance techniques (ESPRIT) algorithms, Matrix Pencil method or one of their derivatives. They involve finding a spatial spectrum of the antenna/sensor array, and calculating the DOA from the peaks of this spectrum. These calculations are computationally intensive. Matrix Pencil is very efficient in case of real time systems, and under the correlated sources.

Beam forming is the method used to create the radiation pattern of the antenna array by adding constructively the phases of the signals in the direction of the targets/mobiles desired, and nulling the

pattern of the targets/mobiles that are undesired/interfering targets. This can be done with a simple FIR tapped delay line filter.



The weights of the FIR filter may also be changed adaptively, and used to provide optimal beam forming, in the sense that it reduces the MMSE between the desired and actual beam pattern formed. Typical algorithms are the steepest descent, and LMS algorithms. Through this effort, many people have been exposed to the concept of smart antennas for the first time. In the context of consumer electronics, a "smart antenna" is one that conforms to the EIA/CEA-909 Standard Interface.



S.Dhanya
II B.E ECE

WELCOME TO THE FUTURE



Revolution of 3G & 4G is still going on. Also most of us may not even have an access to 4G network. But the telecom industry is pretty ahead. Deep researches regarding the deployment of future generation mobile technology is in its final stage. Major hurdle is only the standardization process.

5G Technology stands for 5th Generation Mobile technology. 5G mobile technology has changed the means to use cell phones within very high bandwidth. User never experienced ever before such a high value technology. Nowadays mobile users have much awareness of the cell phone (mobile)

technology. The 5G technologies include all type of advanced features which makes 5G mobile technology most powerful and in huge demand in near future.

KEY CONCEPTS OF 5G

- Real wireless world with no more limitation with access and zone issues.
- Wearable devices with AI capabilities.
- Internet protocol version 6 (IPv6), where a visiting care-of mobile IP address is assigned according to location and connected network.
- One unified global standard.
- Pervasive networks providing ubiquitous computing: The user can simultaneously be connected to several wireless access technologies and seamlessly move between them (See Media independent handover or vertical handover, IEEE 802.21, also expected to be provided by future 4G releases). These access technologies can be a 2.5G, 3G, 4G or 5G mobile networks, Wi-Fi, WPAN or any other future access technology. In 5G, the concept may be further developed into multiple concurrent data transfer paths.
- Cognitive radio technology, also known as smart-radio: allowing different radio technologies to share the same spectrum efficiently by adaptively finding unused spectrum and adapting the transmission scheme to the requirements of the technologies currently sharing the spectrum. This dynamic radio resource management is achieved in a distributed fashion, and relies on software defined radio.
- High altitude stratospheric platform station (HAPS) systems.

Key Features

- 5G technology offer high resolution for crazy cell phone user and bi-directional large bandwidth shaping.
- The advanced billing interfaces of 5G technology makes it more attractive and effective.
- 5G technology also providing subscriber supervision tools for fast action.
- The high quality services of 5G technology based on Policy to avoid error.
- 5G technology is providing large broadcasting of data in Gigabit which supporting almost 65,000 connections.
- 5G technology offer transporter class gateway with unparalleled consistency.
- The traffic statistics by 5G technology makes it more accurate.
- Through remote management offered by 5G technology a user can get better and fast solution.
- The remote diagnostics also a great feature of 5G technology.
- The 5G technology is providing up to 25 Mbps connectivity speed.
- The 5G technology also support virtual private network.
- The new 5G technology will take all delivery service out of business prospect
- The uploading and downloading speed of 5G technology touching the peak.
- The 5G technology network offering enhanced and available connectivity just about the world.5G technology is expected to get deployed during 2011-2014



N. Anandkumar
III B.E ECE

Tit Bits

- The atmosphere is essential for all living organisms. It comprises of 78% Nitrogen, 21% Oxygen and 1% of other gases.
- About 97% of earth's water is in oceans and only 3% is available as fresh water.

Thoughts

"The vast possibilities of our great future will become realities only if we make ourselves responsible for that future."
~ Clifford Pinchot

BLU-RAY

Blu-ray known as Blu-ray disc (BD) is the name of the next generation optical disc format jointly developed by a Blu ray disc association (BDA), a group of the world's leading consumer electronics, PC and media manufacturers (including apple, DELL, Hitachi, HP, JVC, LG, Mitsubishi, Panasonic, Philips, Samsung, Sharp, Sony, TDK and Thomson)

The format was developed to enable recording, rewriting and playback of HD video, as well as strong large amounts data. The format offers more than five times the storage capacity of traditional DVD's and can hold upto 25GB on a single-layer disc and 50GB on a dual-layer disc.

Current optical disc technologies such as DVD, etc rely on a red laser to read and write data. The new format uses a blue-violet laser instead hence the name Blu-ray. Despite the different type of laser used, Blu-ray products can easily be made backwards compatible with CD's, DVD's through the use of a BD/DVD/CD compatible optical pick up unit.

The benefit of using a blue-violet Laser (405nm) is that it has a shorter wavelength than a red laser (650nm), which makes it possible to focus the laser spot with even greater precision. This allows a data to be packed more tightly and stored in less space, so it is possible to fit more data on the disc even though it is the same size as a CD/DVD.



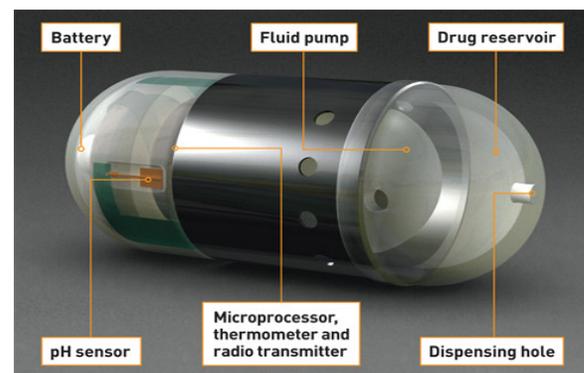
M.Sandeep Sakthi
II B.E ECE

ELECTRONIC PILLS-COLLECTING DATA FROM THE BODY

After years of investment and development, wireless devices contained in swallow able capsules are now reaching the market. These pills contain sensors or tiny cameras that collect information as they travel through the gastrointestinal tract before being excreted from the body a day or two later.

These new electronic inventions transmit information such as acidity, pressure and temperature levels or images of the esophagus and intestine to your doctor's computer for analysis. Doctors often use invasive methods such as catheters, endoscopic instruments or radioisotopes for collecting information about the digestive tract.

Digestive diseases and disorders can include symptoms such as acid reflux, bloating, heartburn, abdominal pain, constipation, difficulty swallowing or loss of appetite.



R.Dhivakar
III B.E ECE

Activities conducted on behalf of ECE Association SPECTRUM

S.No	Name of the event	Venue	Date (s)
1	Inauguration and guest lecture on “Wireless Communication –Opportunities Unlimited” by Mr.V.Gowrishankar, Director Telecom services.	CS Hall	15.07.2011
2	First year orientation and also events for first year students	CS Hall	19.08.2011
3	Guest lecture on “Role of Electronics in Automobile” by Mr.G.R.Shriram & Mr.B.Naveen Kumar(Alumini) , Robert Bosch Ltd, Coimbatore	CS Hall	27.08.2011
4	Guest lecture on “Carrier Opportunities and corporate Ethics” by Ms.D.Chithra, (Alumini) pursuing MBA in SRM University, Chennai.	Mechanical Seminar Hall	17.09.2011
5	Guest Lecture on “Emerging trends and opportunities in VLSI Design” by Mr S.Karthikeyan, Senior Engineer, Micro wind Corp. Bangalore	Electrical Seminar Hall	03.10.2011
6	Guest lecture on “Embedded systems Demand and supply scenario” by Dr.M.Selvaraju, Director, Hands on Technologies, Coimbatore.	CS Hall	10.01.2012
7	Intra departmental function “ECTREONACH’12”		09.02.2012
8	Workshop on “PIC Microcontroller” by Mr.A.S.Srie Gowtham Raaj, Final Year ECE		13.03.2012
9	Valediction and Guest lecture on “ Research issues in Micro strip Antennas for Wi-MAX Applications” by Mr.T.Gunasekaran, HOD – Department of E&I Vivekananda College of Technology for Women		11.04.2012
10	Inauguration of Department Association (SPECTRUM) and guest lecture on “Industrial Automation” by Mr.Muthukrishnan.G, Senior Executive, SEIMENS Ltd.		20.07.2012
11	First Year Orientation Programme		16.08.2012
12	Intra departmental function “INTRATECH 13”	Electrical Seminar Hall	31.01.2013
13	Guest Lecture on “ Mobile Phone to Smart Phone-A Technology Review” by Prof Robert Harris, Sheffield Hallam University, United Kingdom	New Seminar Hall	20.02.2013
14	Guest Lecture on “ Automotive Embedded Systems” by Mr.Karthik Rajapaul, Manager- HRD, Robert Bosch Engineering & Business Solutions, Coimbatore	Electrical Seminar Hall	21.02.2013

Snap Shots of events conducted in SPECTRUM- ECE Association



Guest lecture on “Embedded systems Demand and supply scenario”



Guest lecture on “Industrial Automation”



Valediction and Guest lecture on “Research issues in Micro strip Antennas for Wi-MAX Applications”



Guest Lecture on “Mobile Phone to Smart Phone-A Technology Review” by Prof Robert Harris, Sheffield Hallam University, United Kingdom



Prof Robert Harris, speaking at the function



Guest Lecture on “ Automotive Embedded Systems” by Mr.Karthik Rajapaul, Manager-HRD, Robert Bosch Engineering & Business Solutions, Coimbatore



A section of participants at the function

Participation of ECE Students in IEEE MCET Student Chapter - 61631

S.No	Name of the event	Venue	Date (s)
1	Guest Lecture on Embedded software & Embedded C by G.R.Sriram – Senior IEEE Member	Electrical Seminar Hall	03-09-2011
2	Intra College Paper Presentation-Avalon ‘11	Electrical Seminar Hall	12-09-2011
3	Students Professional Awareness Conference SPAC - 2012	C.S & Electrical Seminar Hall	28-09-2011
4	Guest Lecture on “ Recent trends in Biomedical imaging” by Dr. Kannathal Natarajan, Singapore	C.S.Hall	20-12-2011
5	IEEE Chapter Induction and Valediction	Electrical Seminar Hall	14.03.2012
6	Guest Lecture on “ Embedded Systems” by Mr G R Shriram, IEEE Member, Robert Bosch Ltd, Coimbatore	Mechanical Seminar Hall	03.08.2012
7	“Workshop On E-Resources” - In Collaboration With Central Library	New Seminar Hall	14.09.2012
8	Lecture On Facing Competitive Examination by WIE – MCET Chapter	Electrical Seminar Hall	28.09.2012
9	Intra College Paper Presentation-Avalon 2012	Electrical Seminar Hall	17.09.2012
10	Students Professional Awareness Conference SPAC - 2013	CS Hall	19.02.2013 20.02.2013

Snapshots of events conducted on behalf of professional societies



Intra Collegiate Paper Presentation Contest



Prize Distribution during SPAC 2012



Guest Lecture on Yoga & Health



Guest Lecture on E-Learning

Participation of ECE students in Co-curricular Activities

Technical events (2011-12)

S. No	Students name	Nature of activity	Date	Venue	Recognition/ Awards received				
1	C.Banupriya	Circuitrix	28.09.2011 & 29.08.2011	Excel Engineering College, Komarapalayam.	Participant				
2	R.Kiruthika								
3	C.Banupriya	Brain Blitz			28.09.2011 & 29.08.2011	Excel Engineering College, Komarapalayam.	I Prize		
4	R.Kiruthika								
5	R.Kiruthika	Code Crack					28.09.2011 & 29.08.2011	Excel Engineering College, Komarapalayam.	Participant
6	C.Banupriya								
7	S.Sowmyabegam	Micro Masterz	24.02.2012	Kumaraguru College of Technology, Coimbatore.					I Place
8	K.Prakash								
9	M.Soundarapandiyan	Technisch Ratespiel			24.02.2012	Kumaraguru College of Technology, Coimbatore.			Participant
10	M.Obuli Yuvaraj	Cirtang Blastarz							
11	M.Obuli Yuvaraj	Circuit Debugging					25.02.2012	P.A.College of Engineering and Technology, Pollachi.	Participant
12	K.Suresh Kumar								
13	M.Soundarapandiyan	Circuit Debugging	25.02.2012	P.A.College of Engineering and Technology, Pollachi.					I Prize
14	E.V.Sivaramakrishnan	Box of Ideas							
15	M.Obuli Yuvaraj								
16	S.R.Sivaranjani Devi	MICRO BLAZE			15.03.2012 & 16.03.2012	CSI College of Engineering, Nilgiris.			I Place
17	R.Sujithra								
18	R.Suryaprakasam	Circuit Debugging					09.03.2012 & 10.03.2012	Govt College of Technology, Coimbatore.	Participant
19	T.Santhanabharathi								
20	T.Santhanabharathi	Quiz	16.03.2012	Dr.N.G.P. Institute of Technology, Coimbatore.					Participant
21	T.Santhanabharathi	Technical Quiz							
22	T.Santhanabharathi	Circuit Debugging			14.03.2012	Sri Ramakrishna Institute of Technology, Coimbatore.			Participant
23	T.Santhanabharathi	Multimedia titled "Anti-Corruption"							
24	U.Jaishankar	Circuit Debugging					17.03.2012	SNS College of Technology, Coimbatore.	II Place
			16.03.2012	Dr.N.G.P. Institute of Technology, Coimbatore.			I Prize		

Technical events (2012-13)

S.No	Student Name	Nature of Activity	Date	Venue	Recognition / awards received any
1	Anand Kumar.N	Circuit	10.08.2012	Bannari Amman	Participant
2	S.P. Krishna Kumar	Debugging	11.08.2012	Institute of	
3	U.Jaishankar	Circuit Debugging	10.08.2012 11.08.2012	Technology, Sathyamangalam	II Prize
4	M.Yugal Kishore P.Vignesh	Management Fest	05.09.2012 08.09.2012	SRM University, Chennai	Participant
5	R.Maheshwari B.Madhumathi	Quiz	31.08. 2012	Dr.MCE, Pollachi	Participant
6	M.Deepika	Technical Quiz	25.08. 2012	Sri Eshwar College of Engineering, Coimbatore	III Prize
7	R.Silambarasan U.Jaishankar	Code Debugging	07.09.2012	Velammal College of Engg & Technology,Chennai	III Prize
8	U.Jaishankar	Inventor Arena	21.09.2012 22.09.2012	INFO Institute of Engineering, Coimbatore.	I Prize
9	K.Sakthi Praneetha	JAM	28.09.2012	Sona College of Technology, Salem	II Prize

Paper Presentation**Academic Year 2011-12**

S.no	Students Name	Nature of Activity / Title of Paper	Venue	Date	Awards (if any)
1	P.Charumathy	A Capture resistant environment to assert privacy video surveillance	Excel Engineering College, Komarapalayam.	28.09.2011 & 29.08.2011	I Prize
2	S.Dhanyasri				
3	C.Banupriya	A New revolutionary system to detect human beings buried under Earthquake rubble using PIC Microcontroller	Excel Engineering College, Komarapalayam.	28.09.2011 & 29.08.2011	III Prize
4	R.Kiruthika				
5	P.Charumathy	Intra-collegiate Paper Presentation –Organized by IEEE Student branch (AVALON-11')	Dr.Mahalingam College of Engineering and Technology, Pollachi.	12.09.2011	Participant
6	R.Gayathri				
7	B.Mahalakshmi				
8	S.Dhanya Hansi				
9	A.Navin				
10	E.V.Sivaramakrishnan				
11	D.Madhupriyanka				
12	K.Fathimasreen				
13	M.Asifa				
14	R.Sabari Prabhu				
15	S.Sibhy Raj				
16	M.Ramanan				
17	N.Nivas				
18	S.Manikandan				
19	M.Anbarasan				
20	V.M.Ananthasubrama				
21	N.Kavin				
22	G.Aravinth				
23	S.Arun Vijay				
24	T.Balasubramaniam				
25	R.Dhivakar				
26	L.Amoog				
27	S.Aravind				
28	R.Pavithra				

29	M.Yugul Kishore				
30	S.Nandhini				
31	R.Rajeshwari				
32	M.Priyadharsini				
33	P.Sidharthi	Embedded wireless voting machine	Dr.Mahalingam College of Engineering and Technology, Pollachi.	28.01.2012	Participant
34	S.Shanthini				
35	C.Sindhu Selvanayagi	Mobile Robotic System to perform Multiple Tasks			
36	T.Sathiya Priya	Anti-retrieval Therapy Vs. Anti HIV using Nano Robotics			II Place
37	S.P.KrishnaKumar				Participant
38	S.Muthusambandam				
39	P.Yashini Nivedita	Bionic Eye for Future Perspectives	Kumaraguru College of Technology, Coimbatore.	24.02.2012	Participant
40	T.Sowmiya				
41	T.Sathiyapriya	Mobile Robotic System to perform Multiple Tasks	K.S.Rangasamy College of Technology, Tiruchengode.	10.02.2012	Participant
42	C.Sindhu Selvanayaki				
43	S.Sabarish	Home Automation System			
44	K.Suresh Kumar	Adhoc Networks			II Prize
45	K.Prakash				
46	M.Obuli Yuvaraj				
47	A.S.Sriee Gowtham Raaj	Distribution Induction Motor monitoring system using ARM & CAN bus protocol by cloud computing	First National level conference on advanced Embedded systems and signal Processing at PARK College of Engineering and Technology, Kaniyur, Coimbatore.	01.03.2012 & 02.03.2012	Participant
48	P.Naveen Kumar	More crop per drop in agriculture using embedded system			
49	P.V.Mohan Kumar				
50	L.Arun Prasath				
51	S.Sasikala	Image Retrieval	SVS College of Engineering, Coimbatore.	09.03.2012	Participant
52	V.Saranya				
53	E.V.Sivaramakrishnan	Green Technology	CSI College of Engineering, Nilgiris.	15.03.2012 & 16.03.2012	Participant
54	M.Obuli Yuvaraj				

55	P.Lentson Amos	Voice controlled ZIG-BEE based home automation system	Government College of Technology, Coimbatore.	12.03.2012	Participant
56	V.Mahenrakumar				
57	T.Santhana Bharathi	A New secure design for mobile communication	Dr.N.G.P. Institute of Technology, Coimbatore.	16.03.2012	Participant
58	R.Surya Prakasam				
59	S.Saranya	Nano Sensors in Medical Treatment	Karpagam College of Engineering, Coimbatore.	12.03.2012	II Place
60	P.Sidharthi				
61	P.Sidharthi	Nano Robots	Karpagam Institute of Technology, Coimbatore.	03.03.2012	Participant
62	B.Pratheepa	Simulation and Analysis of Antilock Breaking System using Fuzzy logic Control	Karpagam University, Coimbatore	02.03.2012 & 03.03.2012	Participant
63	P.Karthick	Automated Drip irrigation using wireless communication	Kumaraguru College of Technology, Coimbatore.	16.03.2012 & 17.03.2012	Participant
64	U.Jaishankar	Nano Technology for wireless mobile charger	Dr.N.G.P. Institute of Technology, Coimbatore.	16.03.2012	III Prize

Academic Year (2012-13)

S.No	Student Name	Topic	Venue	Date	Recognition / awards received
1.	B.Abirami		Bannari Amman Institute of Technology, Sathy.	10.08.12	Participant
2.	B.Loganayaki			11.08.12	
3.	S.Azhagu Priya				
4.	U. Jaishankar				
5.	D.Madhu Priyanga				
6.	S.P.Krishna Kumar				
7.	N.Anand Kumar				

8.	S.Preethi		Park college of Engineering & Technology, Coimbatore	06.09.12	Participant
9.	B.Prema latha			07.09.12	
10	R.Radhika				
11	V.Radha Priyadharshini				
12	K.Fathimanasreen				
13	M.Asifa				
14	K.Priyanka	Future of Mobile Communication	Sona College of Technology, Salem	28.09.12	Participant
15	K.Sakthi Praneetha	Embedded Eye			
16	M.Priyadharshini				
17	R.Pavithra				
18	D.Sangeetha priya	An Emerging trend in transmission of Confidential Information.			
19	S.Nandhini	BIOIDS-A security Guaranteed System	Surya Engineering College, Erode	28.09.12	Participant
20	K.Divya	Life Saving Embedded System			
21	S.Anitha				
22	R.Maheswari	Brain-Computer Interface.	Mahendra Institute of Technology. Salem	31.08.12	I Place
23	B.Madhumathi				
24	U.Jaishankar	Nanotechnology for Wireless Mobile Charger	INFO Institute of Engineering, Coimbatore	21.09.12	Participant
25	B.Loganayaki	Nano Sensors for Tumor Detection	Dr.MCET. Pollachi	17.09.12	Participant
26	Abirami.B				
27	R.Maheswari	Brain Controlled Artificial Legs		25.08.12	Participant
28	B.Madhumathi				
29	Deepika.M	Fuzzy Based Temperature Control System.	Sri Eshwar College of Engineering, Coimbatore	25.08.12	Participant
30	P.Mohana priya		Excel Engineering College, Komarapalayam	24.08.12	Participant
31	R.Dhivya Bharathi			25.08.12	
32	R.Silambarasan		Velammal College of Engineering and Technology, Chennai	07.09.12	Participant
33	U.Jaishankar				

34	K.Saranya		Coimbatore Institute of Engineering and Technology, Coimbatore	29.09.12	Participant
35	V.Sri Karthika Devi				
36	C.Malarvizhi		Mahendra Institute of Technology, Salem	31.08.12	Participant
37	S.Savitha				

Participation in Workshops / Seminars

Workshop (Academic Year 2011-12)

S.No	Students Name	Title	Date	Place
1	B.Sugumar	Workshop on Fecund information about VLSI Design and Simulation	15.09.2011	Sri Ramanathan Engineering College, Nadupatti, Tirupur.
2	N.Karthikeyan			
3	A.R.Karthikeyan			
4	C.Manikandan			
5	R.Vigneshwaran			
6	Mathan Raj	Workshop on Matlab organized by IEEE SPAC (maitrIm2.0)	28.09.2011	Dr.Mahalingam College of Engineering and Technology, Pollachi.
7	Vishnu Kumar			
8	Siva Rama Krishnan			
9	S.Saranya			
10	R.Dhivakar			
11	Arun Vijay			
12	M.Selva Kumar			
13	V.Thanga Muthu			
14	Sugumar			
15	R.Vigneshwaran			
16	K.M.venkatesh			
17	Sidarthi			
18	Anantha Subramanian			
19	T.Balasubramanian			
20	V.Jai Sankar			
21	S.Thiyaga Rajan			
22	Shibi Raj			
23	P.Yashini Nivedita	Mobile applications Development workshop	16.02.2012	PSNA College of Engineering and Technology,Dindigul.
24	Muggari Balaji	One day Hands on Training WEKA tool	25.02.2012	JAY Shriram group of Institutions, Tripur.
25	A.Thirunavukkarasu			
26	S.Sabarish			
27	P.Abinaya			

28	S.Subhashini			
29	S.Vaishalivarionika			
30	R.Gowtham	Evolution to 4G & beyond Conducted by BSNL.	08.03.2012 to 10.03.2012	College of Engineering Guindy, Anna University, Chennai.
		DEV Kit8500D & DM3730 Processor conducted by EDGATE Technologies.		
31	M.Gowtham	Art of Debugging issues conducted by DELL FORCE10	08.03.2012 to 10.03.2012	College of Engineering Guindy, Anna University, Chennai.
		PSoC 3/5 Architecture & Application conducted by CYPRESS Semiconductors		
32	R.Sujithra	"Modern automotive systems"- Robert Bosch Engineering and Business Solutions Limited.	09.03.2012	Government College of Technology, Coimbatore.
33	S.R.Sivaranjani Devi			
34	R.Shilpa			
35	R.Gowtham	Dhurya 12 A Conclave on leadership – JCI Pollachi MCET Chapter	07.03.2012	Dr.Mahalingam College of Engineering and Technology, Pollachi.
36	B.Sugumar			
37	M.Gowtham			
38	P.Sidharthi			
39	S.Sundraraj	Entrepreneurship Awareness Camp	15,16 & 17.03.2012	Entrepreneurship Development cell of Dr.Mahalingam College of Engineering and Technology, Pollachi.
40	G.Gokila			
41	P.Kadeswaran			
42	K.M.Raj Kumar			
43	T.Brindha			
44	G.Gokila			
45	M.Karthikeyan			
46	D.Anudhra			
47	R.Arun Prasanth			
48	A.Narendran			
49	D.Anudhra			
50	N.Karthikeyan			
51	A.Mano Bharatha			
52	M.S.Akilen			
53	S.Jai Krishnan			
54	B.Sugumar			
55	D.Saranya			

56	A.Santhiya			
57	R.Partha Sarathy			
58	S.Vishnu Kumar			
59	M.Prabhu			
60	T.P.Rajdeepak			
61	S.Santhosh Kumar			
63	R.Nivedha			
64	G.Naveen Kumar			
65	P.Madhan Raj			
66	C.A.Abdul Gani Rifai			

Workshop (Academic Year 2012-13)

S.No	Students Name	Title	Date	Place
1	S.Savitha	Workshop on “Wireless Networks & its Application”	21.09.2012	K.S.R College of Technology, Trichengode
2	C.Malarvizhi			
3	B.Madhumathi			
4	U.Jaishankar	Workshop on” Android Application & Development”	06.07.2012 07.07.2012	Coimbatore Institute of Technology, Coimbatore
6	R.Maheshwari	Workshop on “EYEBOTZ”	29.09.2012 30.09.2012	PSG College of Technology, Coimbatore
7	K.Dhivya			
8	K.Sakthipraneetha	Workshop on “ Microcontrollers and Programming”	27.09.2012	Sona College of Technology, Salem
9	M.priyadharshini			
10	R.Pavithra			

Participation of ECE Students in Extra Curricular Activities

Honours in Sports (2011-12)

S.No	Name	Year	Game	Name of the Tournament	Position
1	S.Pradeep	IV	Handball	All India Inter University	Participated
2	C.Sindhuselvanaki	III	Football	All India Inter University	Participated
3	S.Savitha	II	Football	All India Inter University	Participated
4	K.Sakthipraneetha	II	Yoga	All India Inter University	Participated
5	V.Krishnaveni	III	Table Tennis	Anna University Inter Zone	II
6	K.Saranya	II	Table Tennis	Anna University Inter Zone	II
7	G.Keerthika	II	Table Tennis	Anna University Inter Zone	II
8	P.Yashini Nivethitha	III	Badminton	Anna University Zone-1	II
9	M.Hindumathy	II	Volleyball	Anna University Zone-1	III
10	V.Monica	IV	Volleyball	Anna University Zone-1	III
11	C.Sindhuselvanaki	III	Football	Anna University Inter Zone	I
12	S.Savitha	II	Football	Anna University Inter Zone	I
13	S.Saranya	III	Football	Anna University Inter Zone	I
14	P.Shri Thangam	I	Football	Anna University Inter Zone	I
15	C.Sindhuselvanaki	III	Football	TIES-12	IV
16	S.Savitha	II	Football	TIES-12	IV
17	S.Saranya	III	Football	TIES-12	IV
18	P.Shri Thangam	I	Football	TIES-12	IV
19	V.Krishnaveni	III	Table Tennis	Anna University Zone-1	I

20	K.Saranya	II	Table Tennis	Anna University Zone-1	I
21	G.Keerthika	II	Table Tennis	Anna University Zone-1	I
22	P.Shri Thangam	I	Throwball	KCT Trophy	II
23	V.Krishnaveni	III	Table Tennis	KCT Trophy	II
24	K.Saranya	II	Table Tennis	KCT Trophy	II
25	G.Keerthika	II	Table Tennis	KCT Trophy	II
26	C.Sindhuselvanaki	III	Football	KCT Trophy	II
27	S.Savitha	II	Football	KCT Trophy	II
28	S.Saranya	III	Football	KCT Trophy	II
29	E.Allen Winferd Raj	III	Table Tennis	Sakthi Trophy	II
30	A.R.Karthikeyan	III	Kho Kho	Sakthi Trophy	I
31	P.Adhith Gokul	I	Kho Kho	Sakthi Trophy	I
32	T.Saravanakumar	I	Chess	Sakthi Trophy	I



2012-13

S.No	Name	Year	Game	Name Of The Tournament	Position
1.	C.Sindhuselvanayaki	III	4x100 Mts	Anna University Zone-10	I-Place
2.	K.Vignesh	III	Chess	Anna University Zone-10	Winners
3	A.R.Karthikeyan	IV	Kho-Kho	Anna University Zone-10	Runners
4.	K.Saranya	IV	Tabel Tennis	Anna University Zone-10	Winners
5	K.Karpagavalli	IV	Ball Badminton	Anna University Zone-10	Winners
6.	N.Gayathridevi	IV	Ball Badminton	Anna University Zone-10	Runners
7.	R.Karthika	II	Ball Badminton	Anna University Zone-10	Winners
8.	K.Gayathri	II	Ball Badminton	Anna University Zone-10	Winners
9.	P.Mohanapriya	III	Ball Badminton	Anna University Zone-10	Winners
10	S.Sowmiyadevi	IV	Hand Ball	SVS college of Engineering, Coimbatore	I-Place
11	S.Sowmiyadevi	IV	Shot Put	SVS college of Engineering, Coimbatore	I-Place
12	S.Sowmiyadevi	IV	Javelin Throw	SVS college of Engineering, Coimbatore	I-Place



Notable achievements by students (Interdisciplinary)

- ❖ Mr. M.Prabakaran of Final ECE participated in SAE super India “Supra Car” Project for developing “ Automatic Gear System using Microcontroller” held at New Delhi from Sep 5-10, 2012 and won a “National level Best Innovative Car Award” worth Rs 45000/- .



Ստանդերթ սարժման ճարձման ունցող ստանդերթ արշարտ սուս արոյ ուլ սարժքան. արոյ սարժարժք ստանդերթ ունցող ճիտարժքան արշարտ.

Placement Details (2008-12 Batch)

S.No	Name Of Students	Roll No	Name of the Company
1	R.Shajith	08BEC174	INFOSYS
2	A.Senthilraja	08BEC172	INFOSYS
3	A.Rafiudeen	08BEC163	INFOSYS
4	Aishwaria K	08BEC201	INFOSYS
5	G.Sevugapriya	08BEC173	INFOSYS
6	S.Sindhu	08BEC175	INFOSYS
7	Arun K B	08BEC105	INFOSYS
8	Arshiya Banu S A	08BEC104	INFOSYS
9	G.Prakash	08BEC253	INFOSYS
10	Deepika P	08BEC111	INFOSYS
11	Mohan Kumar P V	08BEC131	INFOSYS
12	Mohankumar G	08BEC132	INFOSYS
13	R.Nivedha	08BEC152	INFOSYS
14	P.Saranya	08BEC168	INFOSYS
15	Ohm Prakash	08BEC153	INFOSYS
16	G.Vignesh Appavu	08BEC189	INFOSYS
17	S.Salma	08BEC255	INFOSYS
18	N.Poornima	08BEC157	INFOSYS
19	S.Sundraraj	08BEC186	INFOSYS
20	R.K.Vaanisree	08BEC187	INFOSYS
21	Brindha T	08BEC109	INFOSYS
22	Anudhra D	08BEC202	INFOSYS
23	V.Soundarya	08BEC179	INFOSYS
24	Kiruthika P	08BEC124	INFOSYS
25	Dhiyanesh M	08BEC113	INFOSYS
26	Kiruba Saravanan B	08BEC222	INFOSYS
27	P.Poornachandra	08BEC156	INFOSYS
28	Gokila G	08BEC210	INFOSYS
29	K.Priyanka	08BEC162	INFOSYS
30	P.Priya	08BEC161	INFOSYS
31	S.Sasipriya	08BEC170	INFOSYS
32	Asha Fathima R	08BEC107	INFOSYS
33	Guru Vigneshwaran S	08BEC118	INFOSYS

34	Avinash G	08BEC108	INFOSYS
35	Lentson Amos P	08BEC128	INFOSYS
36	Kowsalya V	08BEC126	INFOSYS
37	K.Preethisri	08BEC160	INFOSYS
38	Kavithasree .M	08BEC123	HCL
39	S.Sruthi	08BEC183	HCL
40	S.Pradeep	08BEC158	HCL
41	A.S.Sriee Gowthem Raaj	08BEC181	HCL
42	Mahendrakumar V	08BEC137	ROBERT BOSCH
43	A.Selvakumar	08BEC171	ROBERT BOSCH
44	B.Pratheepa	08BEC159	ROBERT BOSCH
45	Aravindhnan J	08BEC107	ROBERT BOSCH
46	Angayarkannan K	08BEC102	ROBERT BOSCH
47	D.Vivek	08BEC193	ROBERT BOSCH
48	Jayamani S	08BEC119	ROBERT BOSCH
49	R.Vijaisree	08BEC191	ROBERT BOSCH
50	Mohanraj V	08BEC133	Veryx
51	S.Pavithra	08BEC155	SKAVA SYSTEMS
52	T.Revathi	08BEC164	SMART TRAINING INTITUTE
53	Bharath Sundar S	08BEC207	SMART TRAINING INTITUTE
54	A.K.Shanjeetha Mary	08BEC259	NTT DATA-Keane
55	J.C Samuel	08BEC166	NTT DATA-Keane
56	S.Gayathri	08BEC194	NTT DATA-Keane
57	P.Sathyaraj	08BEC257	NTT DATA-Keane
58	R.Sivamanoj	08BEC269	NTT DATA-Keane
59	R,Sivaranjani	08BEC178	NTT DATA-Keane
60	S.Saranya	08BEC169	NTT DATA-Keane
61	Gowthaman K S	08BEC136	NTT DATA-Keane
62	Arun Prasath L	08BEC205	NTT DATA-Keane
63	Jenin James S	08BEC218	NTT DATA-Keane
64	Debavi K	08BEC110	NTT DATA-Keane
65	Divipriya S	08BEC116	NTT DATA-Keane
66	Nagalakshmi R	08BEC134	NTT DATA-Keane
67	Melina Ponmalar D	08BEC139	NTT DATA-Keane
68	Kokhila P	08BEC125	NTT DATA-Keane
69	Latha N	08BEC127	IGENESIS
70	Amsaveni G	08BEC101	IGENESIS
71	S.Vidya	08BEC265	HCL BPO
72	Gowri Shankar M	08BEC211	Triumph Technomate Solutions

73	Arun Mozhi Devi.M	08BEC106	Triumph Technomate Solutions
74	Manoj D	08BEC129	Triumph Technomate Solutions
75	Naveenkumar M	08BEC138	Triumph Technomate Solutions
76	Dhanapal S	08BEC112	Triumph Technomate Solutions
77	K.Sathiya Saranya	08BEC195	Triumph Technomate Solutions
78	A.Sathish Kumar	08BEC268	Triumph Technomate Solutions
79	A.Padmapriya	08BEC154	Triumph Technomate Solutions
80	C.Varun	08BEC263	Triumph Technomate Solutions

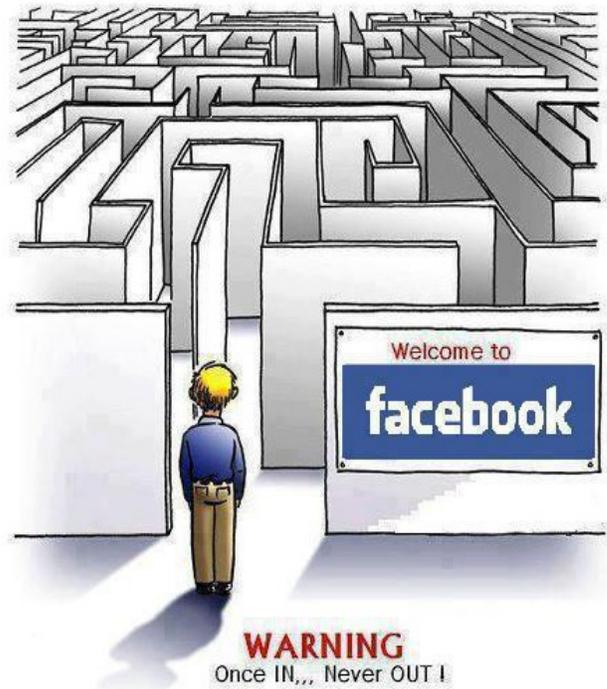
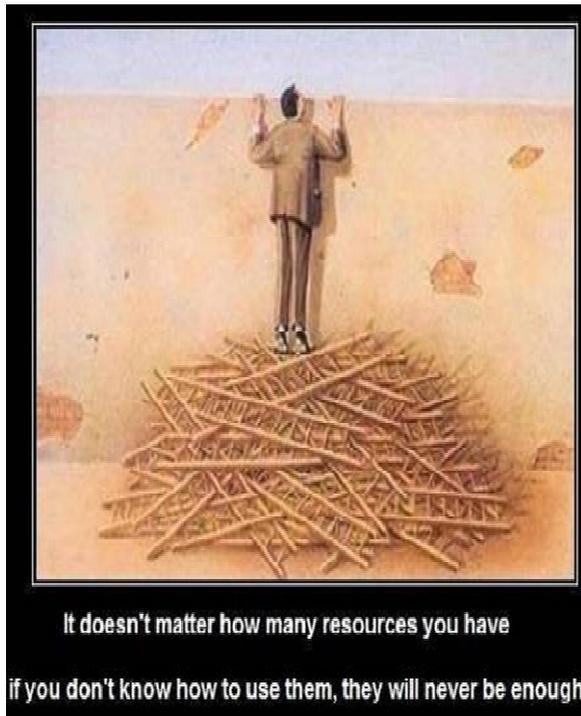
Placement Details (2009-13 Batch till January 2013)

S.No	Name Of The Student	Roll No	Name of the Company
1	Akshaya A	09BEC103	INFOSYS
2	Amrath Nigara R	09BEC105	INFOSYS
3	Dhanapal M	09BEC114	INFOSYS
4	Gayathiri N	09BEC117	INFOSYS
5	Gomathi S	09BEC121	INFOSYS
6	Charumathy P	09BEC207	INFOSYS
7	Guruprasath S	09BEC211	INFOSYS
8	Obuli Yuvaraj M	09BEC152	INFOSYS
9	Parthiban K	09BEC153	INFOSYS
10	Prakash K	09BEC156	INFOSYS
11	Ramya S	09BEC162	INFOSYS
12	Ruthira R	09BEC164	INFOSYS
13	Sakthi Saranya A	09BEC165	INFOSYS
14	Saranya S	09BEC168	INFOSYS
15	Sasikala S	09BEC170	INFOSYS
16	Sivaramakrishnan E.V	09BEC175	INFOSYS
17	Sujanya S	09BEC184	INFOSYS
18	Thilagavathi S	09BEC187	INFOSYS
19	Sujithra R	09BEC260	INFOSYS
20	Yashini Nivedita P	09BEC265	INFOSYS
21	Sivasamy P	09BEC177	INFOSYS
22	Venkatesh K.M	09BEC189	INFOSYS
23	Parthasarathy R	09BEC254	INFOSYS
24	Manjula Devi K.R	09BEC140	INFOSYS
25	Sivaranjani Devi S.R.	09BEC176	SOLITON Automation Systems

Higher Studies: 2008-12 Batch students

S.No.	Name	Course	College/Address
1	R.Vijaishree	M.Sc., Electrical Engineering	Nanyang Technological University, Singapore
2	P.Lentson Amos	MBA	Christ University, Bangalore
3	S.Srinivasan	MBA	IIPM, Bangalore
4	S.Vetriselvan	MBA	IIPM, Bangalore
5	S.Prasanth	MBA	ERC Institute, Singapore
6	S.Sugapriya	ME.,Applied Electronics	Annai Mathammal Sheela College of Engineering, Namakkal
7	S.Salma	ME.,Communication Systems	Kongu Engineering College, Perundurai
8	N.Thirugnanasoundari	ME.,Communication Systems	Dr.Mahalingam College of Engineering and Technology, Pollachi
9	S.Srividya	ME.,VLSI Design	PA College of Engineering and Technology, Pollachi
10	S.Dinesh	ME.,VLSI Design	Jansons Institute of Technology, Coimbatore
11	M.Karthikeyan	ME.,VLSI Design	Hindustan College of Engineering and Technology, Coimbatore

Cartoons with Thoughts



**Whenever You get
Pain in your life
Just think about
the full form of PAIN !**

(Positive **A**ttitude **I**n
Negative **S**ituation)

- Never blame anyone in your Life.
- Good people give you Happiness.
- Bad people give you Experience.
- Worst people give you a Lesson.
- & Best people give you memories



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