

DIGIFLASH PROUDLY PRESENTS

DIGI



TIMES

(MCET's 1st E-Magazine)



Wishes u Happy Independence Day



iOS 6

It will take your iPhone, iPad, and iPod touch in entirely new directions.

Independence Day Special Edition...



# CONTENTS



Abracadabra.....1



Go Mozilla.....2



Know Jargon.....3



Know your Grand Masters.....4



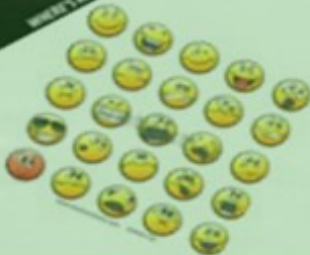
Under attack.....5



Aditi's SPICE.....6



The God Particle.....7



Expressions.....11



## Bal Gangadhar Tilak

Swaraj is my birthright and I shall have it



# ABRACADABRA

Hands up who has never dreamed of owning a magic wand, of imitating the gestures of Wizard Merlin or Harry Potter, or who simply has never wished that saying "Abracadabra" was enough to solve his own problems. If you belong to this large number of people, nowadays technology can come to help you

In fact, a multifunctional remote control, the Kymera Magic Wand is coming from Great Britain. It has the shape of a magic wand and was created by the Wand Company

Even though it is based on the reliable radio or infrared technology, the Magic Wand does not have any keys: it works using an accelerometer which enables it to "feel" some simple gestures of the user and to transform them into signals that give orders to almost all the electronic devices in the house (TV, stereo system, etc)

The Magic wand is able to memorize till 13 gestures whereby you can make it do any kind of tasks: switching the lights on and off, opening the garage door or simply changing channels or adjusting the volume of the TV. With this technological magical wizard there is no need to utter bizarre magic formulae but will suffice just to lift your wand up, for example, to order your TV to



change channel, or to spin it clockwise or counter-clockwise to respectively lower or raise the volume. Moreover, you'll have another advantage; all these movements can be done also in the dark: you will not have to turn the light on any more during a good movie to find the volume key on the remote

If you want to replace your remote control with this super technological gadget, you can receive it at home as by magic for a little less than fifty pounds (about 54 Euro). Perhaps it will cost you a bit of effort to program or store "magic" gestures, but - you know - amazing your friends is priceless

Here's a list of all the gestures

- Rotate anticlockwise
- Rotate clockwise
- Flick upwards
- Flick downwards
- Flick left
- Flick right
- Tap on top
- Tap on site
- Big Swish
- Push forward
- Double tap on top
- Double tap on site
- Pull Back

When a gesture is performed, the wand pulses to confirm that the gesture was done correctly

## TECH QUEST

When there is a burglar in my house, I don't want to call the police; I want to e-mail them or IM them. The burglar will hear my voice. This person has a dual degree in business and MSc Engineering Physics from Uppsala University in Sweden. He co-founded the popular Kaaza; arguably the world's most downloaded Internet software to date. Who is he

Ans: Niklas Zennstrom



The real escape!!!



Tech cross.....12



Mind Reading Computers.....13



Happy Birthday.....15



Jana Gana Mana.....19



Curiosity.....21



India & God.....24



Know your World.....25

Talent Corner(Tamil).....27

SUPRA.....28



E-Waste.....30



Competent Work Force.....32





# MOZILLA IS ON!!

Mozilla, who are renowned for their successful internet browser, are entering the mobile race, developing a new web-centric OS that will directly compete with Google, Apple and Microsoft. If the name Mozilla rings any bells it's because they're the tech boffins who put together Internet Explorer, the browser that Windows defaults to.

Mozilla took the leviathan computing company on with its Firefox browser, and today it stands as the second most popular browser worldwide.

Now the company who was underdog to Microsoft looks to be playing the same role, but this time against internet mogul Google.

Announced on the Mozilla discussion forum, Mozilla have begun coding for phones and tablets. The BBC revealed the mobile operating system will draw on Android code, with Mozilla writing as much fresh code as possible. The hybrid-like operating system will be named Boot To Gecko.

It is an unusual name for an OS, until you remember Gecko is the rendering engine employed by the Firefox browser.

Even though Android coding will form the operating system's foundations, Mozilla hope to add a much more open wrapper around it than Google currently do, making it more versatile as an OS.

Its shared foundations will also make Boot To Gecko compatible with the same phones as Android, competing as a direct alternative to Google. Often, when you select a link from an application native to the Android or iOS market, the operating system will have to open a new webpage in the browser. Boot To Gecko aims to limit this by making applications much more web-centric.

If the venture proves successful, Mozilla will be waging war against industry giants, with Google, Apple and Microsoft dominating many facets of the technological world.

According to Mozilla's project team, all of the code development will be completed and shared with the public as soon as it is written.

Researcher Andreas Gal, who announced the development, admits the company has set a high target, but wants to do it "the way we think open source should be done."

Gal says his ultimate goal is to break "the stranglehold of proprietary technologies over the mobile device world," implicitly referring to the practices of Apple, Windows Phone and Google.







Mahatma Gandhi

. We must be the change we wish to see



## HIGGS BOSON

The Higgs boson or Higgs particle is a proposed elementary particle in the Standard Model of particle physics. The Higgs boson is named for Peter Higgs who, along with two other teams, proposed the mechanism that suggested such a particle in 1964 and was the only one to explicitly predict the massive particle and identify some of its theoretical properties. Higgs Boson is also called as God Particle

### STANDARD MODEL SUMMARY

1.1

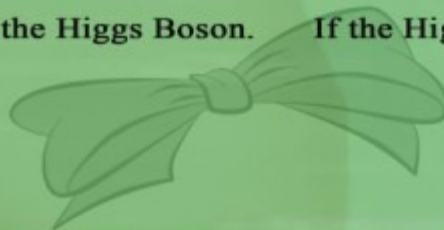
The Standard Model (SM) of particle physics describes our universe at the most fundamental level. It is an elegant model that describes the fundamental particles and how they interact via three of the four fundamental forces of nature—strong nuclear, weak nuclear, and electromagnetic—gravity is not included

The SM is a theory of how the universe works at the subatomic level and is the basis for physicists' understanding of matter

The Standard Model (SM) grew out of combining special relativity and quantum mechanics which spurred on other theories over the last few decades leading to the SM of today—the heart of particle physics theory

The Standard Model has successfully predicted the existence of the top quark, the W Boson, and the Z Boson. It is strongly backed by experimental data and has been never made false predictions

The only SM particle predicted but not yet detected is the Higgs Boson. If the Higgs is found, the SM will be considered to be complete





# Aditi's SPICE!!!

**Socially Conscious**  
Making direct efforts to effect a positive change in society

**People Driven**  
People come first. They care about people they work with.

**Intense**  
Being passionate and committed about everything they do.

**Creative**  
Demonstrating the creative spirit by giving 'out-of-the-box' solutions.

**Ethical**  
Displaying integrity, honesty, respect for other people, taking responsibility for one's actions form the core of one's value system.

## ...ADITI TECHNOLOGIES

ADITI was founded in 1994 by Pradeep Singh, a former Microsoft product manager who had worked on the first version of Excel. He now serves as Executive Chairman of the company and is responsible for the company's strategic direction and execution as it continues on its course of geographic expansion and business growth

The company spent its first 12 years providing outsourced product development services to Microsoft, matching its working culture to the software giant's product cycle. Aditi Technologies was incorporated in Bangalore, India in 2004. Since 2006, it has offered development and testing services to enterprise clients, based purely on Microsoft's various software platforms. Since then, it has tripled in size in 2010, and attracted customers including Thomson Reuters, Ladbrokes and the Co-operative Group

Pradeep Rathinam is Chief Executive Officer of the company. He adds that in 16 years of working with Microsoft, we've learned a lot of things about cutting the time to market, about programme management, about user interface design

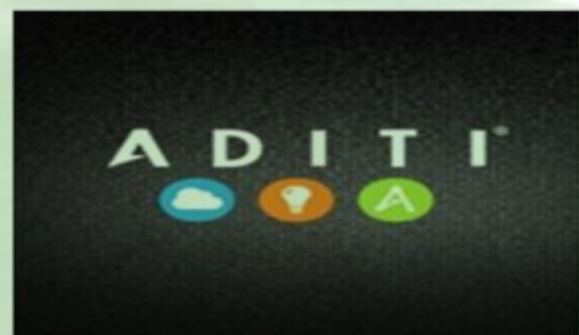
They provide innovation solutions in 4 domains

Digital Marketing solutions that enable online businesses increase customer acquisition

Cloud Solutions that help companies build for traffic and computation surge

Enterprise Social that enables enterprises enhance collaboration and productivity

Product Engineering services that help ISVs accelerate time-to-market





Even if I have to face death a thousand times for  
.The sake of my Motherland, I shall not be sorry  
.Oh Lord! Grant me a hundred births in India  
But grant me this, too, that each time I may give up  
.My life in the service of the Motherland



# UNDER ATTACK HACKTIVISM TAKES

FOR MANY YEARS CYBERCRIMINALS HAVE BEEN MOTIVATED BY THE PROMISE OF FINANCIAL GAIN. BUT IN 2011, THE EMERGENCE OF LULZSEC AND ANONYMOUS MARKED A SHIFT FROM HACKING FOR MONEY TO HACKING AS A FORM OF PROTEST OR TO PROVE A POINT

HACKTIVISTS TYPICALLY HACK FOR POLITICAL PURPOSES, ATTACKING CORPORATIONS, GOVERNMENTS, ORGANIZATIONS AND INDIVIDUALS. THESE GROUPS MAY DEFACE WEBSITES, REDIRECT TRAFFIC, LAUNCH DENIAL-OF-SERVICE ATTACKS AND STEAL INFORMATION TO MAKE THEIR POINT. HACKTIVIST GROUP LULZSEC DOMINATED HEADLINES IN THE FIRST HALF OF THE YEAR WITH ATTACKS ON SONY, PBS, THE U.S. SENATE, THE CIA, FBI AFFILIATE INFRAGARD AND OTHERS, AND THEN DISBANDED AFTER 50 DAYS.1 ANONYMOUS, A LOOSELY-AFFILIATED INTERNATIONAL HACKING GROUP, CLAIMS THAT ITS TACTICS INITIATE CIVIL DISOBEDIENCE. RECENTLY, ANONYMOUS HAS BEEN SUSPECTED OF TAKING DOWN SITES IN EL SALVADOR, ISRAEL AND THE CITY OF TORONTO THROUGH DISTRIBUTED DENIAL-OF-SERVICE ATTACKS. HACKERS AFFILIATED WITH THE GROUP ALSO RELEASED 90,000 EMAIL ADDRESSES OF U.S. MILITARY PERSONNEL IN AN ATTACK ON BOOZ ALLEN HAMILTON IN DECEMBER ANONYMOUS

SHUT DOWN THE FLORIDA FAMILY ASSOCIATION (FFA) WEBSITE IN RESPONSE TO THE FFA'S OPPOSITION TO A NEW TELEVISION SHOW CALLED ALL-AMERICAN MUSLIM AND REQUESTS TO ADVERTISERS TO PULL SUPPORT FROM THE SHOW. ANONYMOUS REPORTEDLY DEFACED THE FFA HOMEPAGE WITH A MESSAGE STATING THE SITE "DESTROYS FREE SPEECH." THE HACKERS ALSO EXPOSED THE EMAIL AND IP ADDRESSES OF MORE THAN 30 FFA NEWSLETTER SUBSCRIBERS AND DONORS AND LISTED CREDIT CARD INFORMATION FOR A DOZEN MORE.2 THE VARIETY OF TARGETS SEEMS TO SHOW THAT ALMOST ANY INSTITUTION COULD BE AT RISK. ALTHOUGH ONLY A TINY MINORITY IS AFFECTED BY HACKTIVIST ATTACKS. SIGNIFICANTLY, LAW ENFORCEMENT ORGANIZATIONS HAVE MADE A SERIES OF ARRESTS OF MEMBERS OF BOTH LULZSEC AND ANONYMOUS IN JUNE, NEW SCOTLAND YARD ARRESTED A 19-YEAR-OLD SUSPECTED LULZSEC MEMBER IN ESSEX, UK. LAW ENFORCEMENT IN THE UK AND U.S. HAVE ARRESTED

SEVERAL OTHER SUSPECTS. TURKISH POLICE DETAINED 32 ALLEGED MEMBERS OF ANONYMOUS IN JUNE. AND IN JULY DOZENS MORE PEOPLE WERE INVESTIGATED FOR ANONYMOUS CONNECTIONS IN ITALY AND SWITZERLAND

PROTECTION STRATEGIES FOR HACKTIVISM

ENCRYPTION IS THE BEST WAY TO PROTECT AGAINST HACKERS AND UNAUTHORIZED ACCESS OF SENSITIVE DATA

TECH QUEST

This man is said to be surrounded by a Reality Distortion Field, which enables him to convince everybody in his vicinity that he is right. An Indian software company turned to his company's product to celebrate a financial landmark. Who are we talking about

Ans: Steve Jobs





Long years ago, we made a tryst with destiny and now the time comes when we shall redeem our pledge... At the stroke of the midnight hour, when the world sleeps, India will awake to life and freedom

#### **RICHARD STALLMAN**

Richard Stallman is the founder of the GNU Project, an initiative to develop a complete Unix-like operating system which is free software. Stallman has written several popular tools, created the GNU licence and campaigns against software patents

#### **ARTHUR C CLARKE** :2001

A Space Odyssey writer Arthur C Clarke has consistently been ahead of his time in predicting how technology will change the world. Most notably, in 1945 he suggested that geostationary satellites would make ideal telecoms relays

#### **TED CODD**

Ted Codd created 12 rules on which every relational database is built - an essential ingredient for building business computer systems

#### **STEVE SHIRLEY**

Steve Shirley was an early champion of women in IT. She founded the company now known as Xansa, pioneered new work practices and in doing so created new opportunities for women in technology

#### **MARTHA LANE FOX**

With Brent Hoberman, Martha Lane Fox created Lastminute.com in 1998, and as "the face" of Lastminute raised the profile of e-commerce ever higher in the public consciousness







Revolution is an inalienable right of mankind. Freedom is an imperishable birth right of all. Labor is the real sustainer of society, the sovereignty of the ultimate destiny of the workers

## KNOW YOUR GRANDMASTERS THE TOP TEN PEOPLE IN THE IT WORLD

### STEVE JOBS: INNOVATOR WHO ENJOYED A SECOND BITE OF THE APPLE

Steve Jobs, the co-founder and chief executive of Apple Computer, topped the Computer Weekly 40th anniversary poll due to the devoted following he has generated through his pioneering work in personal computing and product design

### TIM BERNERS-LEE: FATHER OF THE WEB AND CHAMPION OF IT FREEDOM

Dotcoms, bloggers and Google all have one man to thank for their place in the 21st century world. In 1990

Tim Berners-Lee made the imaginative leap to combine the internet with the hypertext concept, and the worldwide web was born

### BILL GATES: MIXING MATHS AND MONEY TO BUILD MICROSOFT

As joint founder of the world's biggest software company, Microsoft, Bill Gates's approach to technology and business was instrumental in making technology available to the masses

### JAMES GOSLING

Of your choice of the most influential people in IT, James Gosling is the true geek. Unlike Bill Gates and Steve Jobs, neither of whom finished college, Gosling completed a PhD in computer science and contributed to software innovation at a technical level

### LINUS TORVALDS

As the creator of the Linux operating system, Linus Torvalds has been a driving force behind the whole open source movement, which represents not only an ever increasing challenge to proprietary software, but is also the inspiration for the industry to move to open standards



*The best grandmom!!!*





It is better to be violent, if there is violence in our hearts, than to put on the cloak of nonviolence to cover impotence  
I regard myself as a soldier, though a soldier of peace. - Mahatma Gandhi



# KNOW JARGON !!



Bhanu Srikanth,  
Executive Director,  
Jargon technologies

*Jargons maybe neglected but Bhanu's Jargon is worth knowing 😊*

Bhanu Srikanth is the Co-founder and Executive Director of Jargon Technologies. Since its inception in 2009, Jargon has established itself as a leader in advanced application development for Blu-ray, Mobile and other interactive platforms, working with major Hollywood studios on their high profile releases.

As Executive Director of Jargon, Bhanu is responsible for account management, business development, and overall strategy of the company

Through three years of strategic growth and satisfied customers, Bhanu has had the privilege of working with Studio, Creative, and Authoring partners to deliver entertainment in exciting new ways on a medium used by millions of people. Most importantly, she is also the Chief Culture Officer, and ensures that all talent hired can support Jargon's vigorous coding standards and robust delivery methodologies. Before founding Jargon, Bhanu had over 15 years experience in software design and development

She transitioned into media technology in early 2002 when she joined Panasonic Hollywood Laboratories (PHL). At PHL, as part of the core R&D team that developed and evolved the Blu-ray™ format, she was involved in various aspects of Blu-ray™ technology; starting from pre-conception of the format through format standardization, building authoring tools and developing some of the early BD-Java & BD-Live™ titles. Bhanu holds a BS in Physics and an MS in Computer Science

*She has conducted numerous training seminars for studios, producers, authors/programmers for Javelin.*



Vinoba Bhave



If we wish our nature to be free and joyous, we should bring our activities into same order

### Leptons

$e, \mu, \tau$   
 $\nu_e, \nu_\mu, \nu_\tau$

**l**

### Quarks

$u, c, t$   
 $d, s, b$

**q**

**$\gamma$**

Photon

**W**

$W^+/W^-$

**Z**

$Z^0$

**g**

Gluons

**H**

Higgs Boson

### THE HIGGS BOSON IN CONTEXT

The Higgs boson is the last “missing piece” of the Standard Model and the 5th member of the boson family (but not a force carrier)

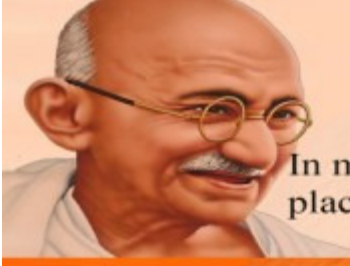
The Higgs is a hypothetical particle that gives mass to all other particles that normally have mass

The Higgs particle creates a Higgs field that permeates spacetime

The Higgs particle and its corresponding field are critical to the understanding and validation of the SM, since the Higgs is deemed responsible for giving particles their mass

The elusive Higgs is so central to the SM and the theory on which the whole understanding of matter is based, if the Higgs does not exist (is not detected), we will not be able to explain the origin of mass





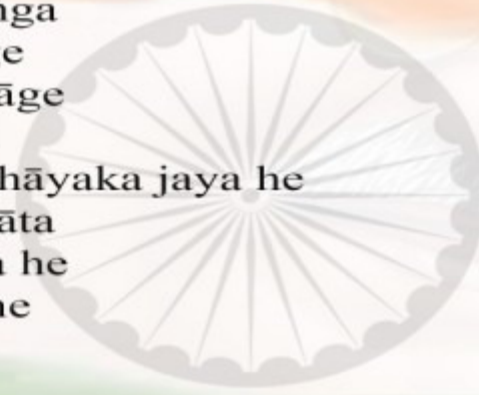
In matters of conscience, the law of the majority has no place



## JAIHO INDIA!!!

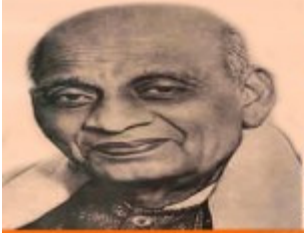
### Stanza-1

Jana gaṇa mana adhināyaka jaya he  
 Bhārata bhāgya vidhātā  
 Pañjāb Sindhu Gujarāṭa Marāṭhā  
 Drāviḍa Utkala Baṅga  
 Vindhya Himāchala Yamunā Gaṅgā  
 Uchhala jaladhi taraṅga  
 Tava śubha nāme jāge  
 Tava śubha āśhiṣa māge  
 Gāhe tava jaya gāthā  
 Jana gaṇa maṅgala dhāyaka jaya he  
 Bhārata bhāgya vidhāta  
 Jaya he, jaya he, jaya he  
 Jaya jaya jaya, jaya he



### MEANING

O lord of our destiny you are the captain of our souls and of the people of Bharat (India). Your name rouses the hearts of Punjab, Sindhu, Gujarat, Maratha, of the Dravida and Orissa and Bangla. "Tava shubha name jage Tava shubha asisa mage" Your (the eternal charioteer of India) auspicious names echo in the hills of the Vindhyas and Himalyas, mingle in the music of Yamuna and Ganga and are chanted by the waves of the Indian Sea. They pray for your blessing and sing your praise (unknowingly or knowingly they chant your names and are blessed.). The saving of all people waits in your hand, Oh You dispenser of India's destiny. Victory, victory, victory to You Victory, victory, victory to You (our God of destiny, because you are ruling us, and we are your servants. So you always win

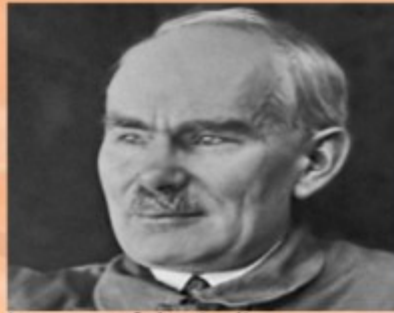


## Sardar VallabhBhai Patel

Even if we lose the wealth of thousands, and our life is sacrificed, we should keep smiling and be cheerful keeping our faith in God and Truth



Tennis great Althea Gibson (25 August 1927) was the first African-American ever invited to play at Wimbledon. She broke barriers for black players in golf too



Inventor of the Audion vacuum tube, Lee De Forest (26 August 1873) made possible live radio broadcasting before the invention of the transistor



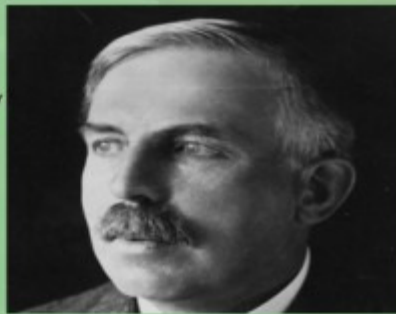
Lyndon B. Johnson (27 August 1908) was elected vice president of the U.S. in 1960 and became the 36th president in 1963 upon the assassination of President John F. Kennedy

African American poet Rita Dove (28 August 1952) is the youngest person and the first African American to be appointed Consultant in Poetry at the Library of Congress



Michael Jackson is a famous American singer, actor, dancer and choreographer, who was born on August 29, 1958

Physicist Ernest Rutherford (30 August 1871) was the central figure in the study of radioactivity who led the exploration of nuclear physics

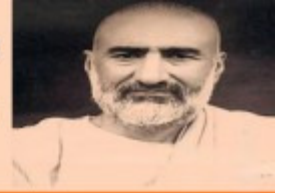


Ramón Magsaysay (August 31, 1907) was the third President of the Philippines and is credited with restoring peace and order during the Philippine crisis of the 1950s



## Khan Abdul Ghaffar Khan

Pathans! Your house has fallen into ruin. Arise and rebuild it  
.and remember to what race you belong



**James Cameron**  
Born on August 16, 1954.  
James Francis Cameron is an Academy Award winning Canadian director, producer and



**Thierry Henry**  
Thierry Daniel Henry, (born 17 August 1977) is a French football player. Renowned for his pace, he plays as a striker for the France national team and .English club Arsenal FC



**Vijaya Lakshmi Pandit**  
Vijaya Lakshmi Pandit( August 18,1900) was an Indian political leader and diplomat, one of the world's leading women in .public life in the 20th century



**N.R. Narayana Murthy**, the founder of Infosys Technologies born on August 20, 1946



**Henri Cartier-Bresson** (August 22, 1908) was a French photographer whose humane, spontaneous photographs helped establish photojournalism as an art form



**Usain Bolt** (August 21, 1986) became the first man in Olympic history to win both the 100-meter and 200-meter races in world record times. He won his second consecutive



**Henri Cartier-Bresson** (August 22, 1908) was a French photographer whose humane, spontaneous photographs helped establish photojournalism as an art form



**American economist Kenneth Arrow** (23 August 1921) is known for his contributions to welfare economics and to general economic equilibrium theory. He .won a Nobel Prize in 1972



**Rupert Grint**(24 August 1988) is an English actor best known for portraying Ron Weasley in the .Harry Potter films





Mother, I bow to thee! Rich with thy hurrying streams, Bright with orchard gleams, Cool with thy winds of delight, Green fields waving, Mother of might, Mother free. Glory of moonlight dreams, Over thy branches and lordly streams, Clad in thy blossoming trees, Mother, giver of ease, Laughing low and sweet! Mother I kiss thy feet, Speaker sweet and low! Mother, to thee I bow  
you freedom!!

Bankim Chandra Chatterjee



**RALPH BUNCHE .7**  
((1903-1971  
Nobel Peace Prize for 1950  
U.N. work in the Middle East



**ROGER FEDERER 31.8**  
Dominant men's tennis  
champ, born in Switzerland



**ERIC BANA 44 .9**  
Australian actor played Bruce  
Banner in "Hulk" movie



**HERBERT HOOVER .10**  
((1874-1964  
31st U.S. President  
((1929-1933



**STEVE WOZNIAK 61 .11**  
Inventor (with Steven Jobs) of  
the Apple II computer



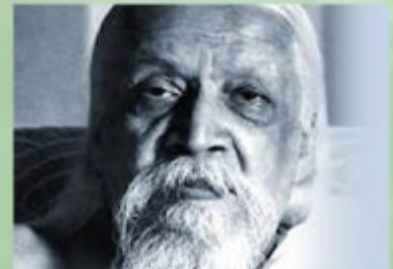
**PETE SAMPRAS 40 .12**  
Tennis champ won fourteen  
grand slam singles titles



**FIDEL CASTRO 85 .13**  
Cuban dictator came to  
power in the revolution of  
1959



**H.C. OERSTED .14**  
((1777-1851  
Discovered magnetic effects  
from electric current



**SRI AUROBINDO .15**  
((1872-1950  
Yoga master was a leader in



## Chandra shekhar azad

If yet your blood does not rage, then it is water that flows in your veins. For  
.what is the flush of youth, if it is not of service to the motherland



# BIRTHDAY CORNER



FRANCIS SCOTT KEY .1  
((1779-1843  
Composer of U.S. anthem  
""The Star Spangled Banner



SAM WORTHINGTON 36 .2  
Australian actor won interna-  
tional fame in "Avatar" (2009



(ELISHA OTIS (1811-1861 .3  
Bearded inventor created  
and popularized the first  
modern elevator



BARACK OBAMA .4  
Former Illinois Senator, author  
of "The Audacity of Hope",  
elected 44th U.S. president



Neil Armstrong .5  
August 5, 1930



M. NIGHT SHYAMALAN 42 .6  
Indian director shocked audi-  
ences with "The Sixth Sense



Live as if you were to die tomorrow.  
Learn as if you were to live forever



## HOW DOES IT WORK ?

The mind reading actually involves measuring the volume and oxygen level of the blood around the subject's brain, using technology called functional near-infrared spectroscopy (fNIRS)

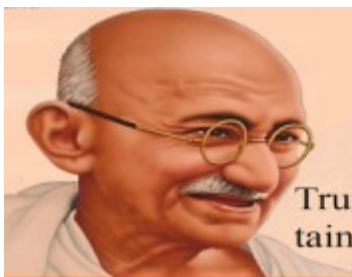
The user wears a sort of futuristic headband that sends light in that spectrum into the tissues of the head where it is absorbed by active, blood-filled tissues. The headband then measures how much light was not absorbed, letting the computer gauge the metabolic demands that the brain is making. The results are often compared to an MRI, but can be gathered with lightweight, non-invasive equipment



Wearing the fNIRS sensor, experimental subjects were asked to count the number of squares on a rotating onscreen cube and to perform other tasks. The subjects were then asked to rate the difficulty of the tasks, and their ratings agreed with the work intensity detected by the fNIRS system up to 83 percent of the time

**G.ABIRAMI**  
**3rd-CSE-A**





Truth stands, even if there be no public support. It is self-sustained



## **MIND-READING COMPUTER**

Drawing inspiration from psychology, computer vision and machine learning, the team in the Computer Laboratory at the University of Cambridge has developed mind-reading machines — computers that implement a computational model of mind-reading to infer mental states of people from their facial signals. The goal is to enhance human-computer interaction through empathic responses, to improve the productivity of the user and to enable applications to initiate interactions with and on behalf of the user, without waiting for explicit input from that user. There are difficult challenges

Using a digital video camera, the mind-reading computer ppt system analyzes a person's facial expressions in real time and infers that person's underlying mental state, such as whether he or she is agreeing or disagreeing, interested or bored, thinking or confused

Prior knowledge of how particular mental states are expressed in the face is combined with analysis of facial expressions and head gestures occurring in real time. The model represents these at different granularities, starting with face and head movements and building those in time and in space to form a clearer model of what mental state is being represented. Software from Nevenvision identifies 24 feature points on the face and tracks them in real time. Movement, shape and colour are then analyzed to identify gestures like a smile or eyebrows being raised. Combinations of these occurring over time indicate mental states. For example, a combination of a head nod, with a smile and eyebrows raised might mean interest. The relationship between observable head and facial displays and the corresponding hidden mental states over time is modeled using Dynamic Bayesian Networks

### **WHY MIND READING**

The mind-reading computer system presents information about your mental state as easily as a keyboard and mouse present text and commands. Imagine a future where we are surrounded with mobile phones, cars and online services that can read our minds and react to our moods. How would that change our use of technology and our lives? We are working with a major car manufacturer to implement this system in cars to detect driver mental states such as drowsiness, distraction and anger

Current projects in Cambridge are considering further inputs such as body posture and gestures to improve the inference. We can then use the same models to control the animation of cartoon avatars. We are also looking at the use of mind-reading to support on-line shopping and learning systems

The mind-reading computer system may also be used to monitor and suggest improvements in human-human interaction. The Affective Computing Group at the MIT Media Laboratory is developing an emotional-social intelligence prosthesis that explores new technologies to augment and improve people's social interactions and communication skills

# FOR ALL YOU TECH GEEKS OUT THERE, HERE IS A !!CROSSWORD TO SOLVE

## TECH-CROSS

### Left to Right

(1) character that can be substituted for zero or more characters in a string[8]

(2) set of rules for a language[6]

(3) bookmarking the page[9]

(4) another word for question[5]



### TOP DOWN

[NO VALUE][4(6)]

SOFTWARE TO MAKE HARDWARE(7)

[WORK][6]

[ACROSS A TOUCHSCREEN][5(8)]

[MAKES MACINTOSH][5(9)]

### BOTTOM UP

MAKES DISK INAC-(10)

[CESSIBLE][7]

### Tech Quest

In 1946 twenty people met in a burned-out department store in Tokyo to form a new company "The Tokyo Telecommunication Engineering Corporation". One of its founders, Masaru Ibuka, wanted to create a product that would be useful to the general public. What is the company known as today?

:Answers

Wildcard.1

Syntax.2

Favourites.3

Query.4

Lan.5

Null.6

Drive.7

Swipe.8

Apple.9

UI.10





Give me blood and I will give you freedom! -  
Subhash Chandra Bose

## EXPRESSIONS...

A latest invention by MIT Media Lab is a new robot that is able to show various facial expressions such as 'slanting its eyebrows in anger', or 'raise them in surprise', and show a wide assortment of facial expressions while communicating with people

This latest achievement in the field of Robotics is named NEXI as it is framed as the next generation robots which is aimed for a range of applications for personal robots and human-robot teamwork

The head and face of NEXI were designed by Xitome Design which is an innovative designing and development company that specializes in robotic design and development. The expressive robotics started with a neck mechanism sporting 4 degrees of freedom (DoF) at the base, plus pan-tilt-yaw of the head itself. The mechanism has been constructed to time the movements so they mimic human speed. The face of NEXI has been specially designed to use gaze, eyebrows, eyelids and an articulate mandible which helps in expressing a wide range of different emotions. The chassis of NEXI is also advanced. It has been developed by the Laboratory for Perceptual Robotics UMASS (University of Massachusetts), Amherst. This chassis is based on the uBot5 mobile manipulator. The mobile base can balance dynamically on two wheels. The arms of NEXI can pick up a weight of up to 10 pounds and the plastic covering of the chassis can detect any kind of human touch



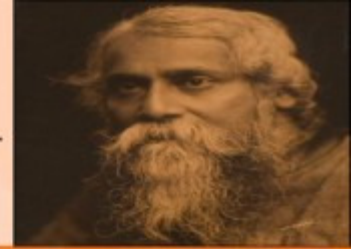
This project was headed by Media Lab's Cynthia Breazeal, a well known robotics expert famous for earlier expressive robots such as Kismet. She is an Associate Professor of Media Arts and Sciences at the MIT. She named her new product as an MDS (mobile, dextrous, social) robot. Except a wide range of facial expressions, Nexi has many other features. It has self-balancing wheels like the Segway transporter, to ultimately ride on. Currently it uses an additional set of supportive wheels to operate as a statically stable platform in its early stage of development. It has hands which can be used to manipulate objects, eyes (video cameras), ears (an array of microphones), and a 3-D infrared camera and laser rangefinder which support real-time tracking of objects, people and voices as well as indoor navigation





## Rabindra Nath Tagore

I have become my own version of an optimist. If I can't make it through one door, I'll go through another door - or I'll make a door. Something terrific will come no matter how dark the present



### **WILL THE HIGGS BOSON BE DETECTED ?**

The cost to build the Large Hadron Collider was up to \$10 billion. There are thousands of scientists working at CERN and around the world, and the ongoing costs of the project are significant—it uses as much electricity as the City of Geneva.

Because of the historical success of the Standard Model in its predictions thus far and the power of the LHC, many particle physicists think the Higgs will be detected at the LHC.

Yet there is no guarantee the Higgs will be found.

Some physicists, Stephen Hawking among them, think the Higgs will not be found. The LHC can accelerate hadrons to a maximum energy of 14 TeV (7 times greater than Fermilab's Tevatron).

If the Higgs mass is less than about 800 GeV, it is likely that it would be detected at the LHC.

However, no experimental data to date hints at the existence of the Higgs and finding the Higgs at the LHC (or Tevatron) is extremely difficult.

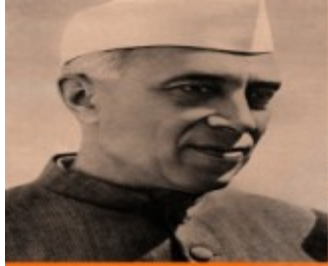
If the Higgs is not found, physicists will have to develop new models to explain the fundamentals of our universe.

Whatever the outcome, the probability of discovering something new is extremely high.

Either the Higgs will be found or new physics (e.g. extra dimensions or supersymmetry) should come out of the LHC experiments.

**BY**  
**B. SAMRUTHI NARTHANA DEVI**  
**2ND BE-CSE-'B**





## Jawaharlal Nehru

Only a prisoner who has been confined for long behind high walls can appreciate the extraordinary psychological value of these outside walks and open views. - Jawaharlal Nehru



### **WHY DO WE NEED THE HIGGS ?**

In order for the Standard Model to retain its symmetry, all particles would have to be massless. This is not possible since through experiments we know the weak force carriers have mass

Yukawa's formula states that force carrier mass is inversely proportional to force range. In this way, we can also deduce that weak force carriers have mass. (Because of the nature of the strong force, it is an exception to this rule)

The Higgs mechanism was originally introduced to allow the W and Z bosons to have mass. Physicists found to their delight that this was a way to give fermions mass as well

The current Standard Model provides no explanation of how some particles come to have mass

### **THE HIGGS AND THE BIG BANG**

At the instant of the Big Bang, the universe was comprised of particles of pure energy

Milliseconds after the event, the universe cooled and the Higgs field developed

Particles began to acquire mass as they cooled, slowed down and moved through the newly created Higgs field. Particles lost kinetic energy and gained mass ( $E=mc^2$ )

Elementary particles developed and the Higgs field continued to permeate spacetime

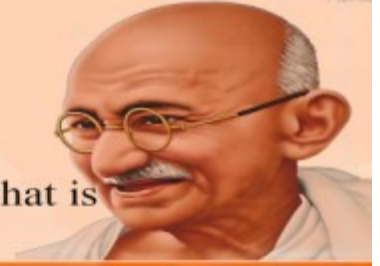
In unification theory, physicists look to the big bang for evidence of a single superforce. Each of the four fundamental forces is thought of as a manifestation of a single force at low energies

.Particle accelerators attempt to recreate the original conditions of the Big Bang





Truth never damages a cause that is just



### STANZA- 2

OhoroHo Tobo Aahbaano Pracharito, Shuni Tabo Udaaro Baani Hindu Baudho Shikho Jaino, Parashiko Musholmaano Christaani Purabo Pashchimo Aashey, Tabo Singhaasano Paashey Premohaaro Hawye Gaanthea Jano Gano Oikyo Bidhaayako Jayo Hey, BhaaratO Bhaagyo Bidhaataa Jayo Hey, Jayo Hey, Jayo Hey, Jayo Jayo Jayo, Jayo Hey

### MEANING

Your call is announced continuously, we heed Your gracious call The Hindus, Buddhists, Sikhs, Jains, Parsees, Muslims, and Christians, The East and the West come, to the side of Your throne And weave the garland of love. Oh! You who bring in the unity of the people! Victory be to You, dispenser of the destiny of India

### STANZA- 3

Potono Abhbhudoy Bandhuro Ponthaa, Jugo Jugo Dhaabito Jaatri Hey Chiro Saarothi, Tabo Ratha Chakrey Mukhorito Potho Dino Raatri Daaruno Biplabo Maajhey, Tabo Shankhodhwoni Bajey Sankato Dukkho Traataa Jano Gano Potho Parichaayako, Jayo Hey BhaaratO Bhaagyo Bidhaataa Jayo Hey, Jayo Hey, Jayo Hey, Jayo Jayo Jayo, Jayo Hey

### MEANING

The way of life is somber as it moves through ups and downs, But we, the pilgrims, have followed it through ages. Oh! Eternal Charioteer, the wheels of your chariot echo day and night in the path In the midst of fierce revolution, your conch shell sounds. You save us from fear and misery Oh! You who guide the people through tortuous path. Victory be to You, dispenser of the destiny of India



# Hats off, ya folks!!



Lakshminathan- President, SGS



Sorna Lingam- Library Coordinator, SGS



Jeeva Nandhini- Library Coordinator, SGS



Syed Ghouse, IT Coordinator, SGS



Dharanidharan- Secretary, SGS



Revathi- Joint Secretary, SGS



Vaijayanth- President, DigiFlash



Prithvi Ramakrishnan- President, Gyan Quiz Club



Dinesh Babu- President, Citizen Consumer Club



Vimal- President, CSI



Anand- President, Youth Red Cross



Ashwin- President, Red Ribbon Club

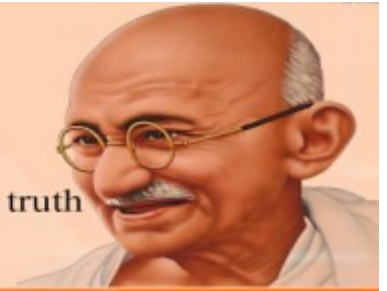


Angeline- President, Youth Parliament

**CSE ROCKS**

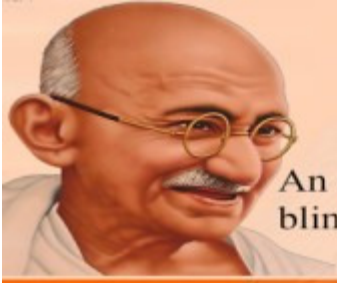


Even if you are a minority of one, the truth is the truth



- |  |  |
|--|--|
| 24. Ms.V.Dhivya Poorani(Asst. Prof)      | Data Structures, Database Management System, Neural Networks       |
| 25. Ms.P.Karthika (Asst. Prof)           | Computer Networks, Mobile Computing, Operating System              |
| 26. Ms.P.Kalpanadevi(Asst. Prof)         | Data Mining, Data Structures, Networking                           |
| 27. Ms.S.Thiripura Sundari (Asst. Prof)  | Compiler Design, Java Programming, Image Processing                |
| 28. Ms.M.S.Ramya(Asst. Prof)             | Networking, Operating System                                       |
| 29. Mr.K.Srinivasan(Asst. Prof)          | Data Structures, Agent-based Intelligent Systems                   |
| 30. Mr.J.Mano(Asst. Prof)                | Cryptography and Network Security, Image Processing                |
| 31. Ms. A.Thamarai Selvi(Asst. Prof)     | Optimization Techniques, Discrete Mathematics                      |
| 32. Ms. V.Aruna Devi (Asst. Prof)        | Communication Skills, Soft Skills, American Literature             |
| 33. Mr.B.Saravanakumar(Asst. Prof)       | Physics, Nanomaterials   |
| 34. Ms.N.Akiladevi(Asst. Prof)           | Optimization Techniques, Graph Theory                              |
| 35. Mr.A.M.Mohan Kumaravelu (Asst. Prof) | Operations Research, Laplace Transforms and Differential Equations |





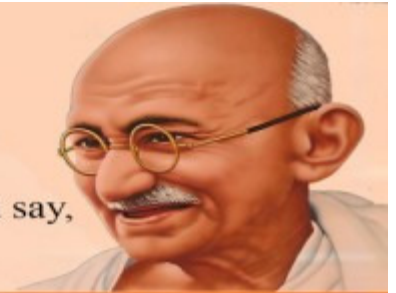
An eye for an eye only ends up making the whole world blind



- |                                       |   |
|---------------------------------------|---|
| 12. Ms.T.Ambeka(Asst. Prof)           | C++, Java Programming, Database Management System, Data Warehousing and Data Mining               |
| 13. Mr.R.Selvam (Asst. Prof)          | Compiler Design, Theory Of Computation  |
| 14. Ms.M.Pabitha (Asst. Prof)         | Cryptography and Network Security, Computer Networks  |
| 15. Ms.K.Balasaranya(Asst. Prof)      | Design and Analysis of Algorithms, Network Security, Artificial Intelligence                      |
| 16. Mr.T.Godhandaraman (Asst. Prof)   | Data Structures, Object Oriented Programming, Data Mining, Computer Networks, Java Programming    |
| 17. Mrs. K.Vidhya(Asst. Prof)         | Computer Networks, Data Structures, Database Management System, Design and Analysis of Algorithms |
| 18. Ms.S.C.Lavanya(Asst. Prof)        | Data Warehousing and Data Mining, Operating System  |
| 19. Mr.C.Subhanandhan (Asst. Prof)    | Database Management System, Data Warehousing and Data Mining                                      |
| 20. Ms.S.Shanmugapriya(Asst. Prof)    | Computer Graphics   |
| 21. Ms.P.Ramya devi (Asst. Prof)      | Network Security, Operating System  |
| 22. Mr.T.Kanagasabapathy (Asst. Prof) | Computer Networks   |
| 23. Mr.R.Muralidharan(Asst.Prof)      | Database Management System, Object Oriented   |



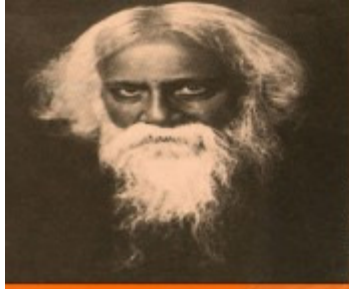
Happiness is when what you think, what you say,  
and what you do are in harmony



## Know our staff

- |  |  |
|--|--|
| 1. Dr.A.Rathinavelu(PG HOD)                      | C and C++ Programming, Windows and Web Programming, Multimedia Technologies                              |
| 2. Mr. A.Gowri Shankar (UG HOD)                  | Computer Networks, Multimedia, Network Security  |
| 3. Mrs.G.Anupriya(Asst. Prof-Senior Grade)       | Neural Networks, Design and Analysis of Algorithms   |
| 4. Ms. A.Brunda (Asst. Prof-Senior Staff)        | Artificial Intelligence  |
| 5. Mr. K.Thirukumar (Asst. Prof-Senior Staff)    | Database Management System, Web Technology,Java Programming, Operating System, Networks, System Software |
| 6. Mr. R. Chandrasekar (Asst. Prof-Senior Staff) | Compiler Design, TCP/IP Networks, Network Security   |
| 7. Mrs.J.Bhavithra(Asst. Prof-Senior Staff)      | Mobile Communications, Network Security  |
| 8. Mr.N.Gobi (Asst. Prof)                        | Operating System, Database Management System, Data Structures, Compiler Design                           |
| 9. Ms.S.Shanthi(Asst. Prof)                      | Principles of Compiler Design, Data Structures, Operating System, Object Oriented Programming            |
| 10. Ms.N.Sumathi (Asst. Prof)                    | Computer Networks, Object Oriented Analysis and Design, Database Management System                       |
| 11. Ms.V.Priya(Asst. Prof)                       | Database Management System, Data Mining, Semantic Web, Software Engineering                              |





## Rabindra Nath Tagore

Beauty is truth's smile when she beholds her own face in a perfect mirror



You can reduce the environmental impact of your E-Waste by making changes in your buying habits, looking for ways to reuse including donating or recycling. Preventing waste to begin with is the preferred waste management option

When buying new equipment, check with the retailer or manufacturer to see if they have a "take-back program" that allows consumers to return old equipment when buying new equipment and, when buying, consider products with longer warranties as an indication of long-term quality



**BY**

**P.VISHNU  
3RD-CSE-B**





Nobody can hurt me without my permission



## E-WASTE

Electronic waste or e-waste is any broken or unwanted electrical or electronic appliance. E-waste includes computers, entertainment electronics, mobile phones and other items that have been discarded by their original users. E-waste is the inevitable by-product of a technological revolution. Driven primarily by faster, smaller and cheaper microchip technology, society is experiencing an evolution in the capability of electronic appliances and personal electronics. For all its benefits, innovation brings with it the byproduct of rapid obsolescence. According to the EPA, nationally, an estimated 5 to 7 million tons of computers, televisions, stereos, cell phones, electronic appliances and toys, and other electronic gadgets become obsolete every year. According to various reports, electronics comprise approximately 1 – 4 percent of the municipal solid waste stream. The electronic waste problem will continue to grow at an accelerated rate



### E-WASTE: ITS IMPLICATIONS

Electronic products often contain hazardous and toxic materials that pose environmental risks if they are land filled or incinerated

Televisions, video and computer monitor use cathode ray tubes (CRTs), which have significant amounts of lead

Printed circuit boards contain primarily plastic and copper, and most have small amounts of chromium, lead solder, nickel, and zinc

In addition, many electronic products have batteries that often contain nickel, cadmium, and other heavy metals. Relays and switches in electronics, especially older ones, may contain mercury



**Crew members:**

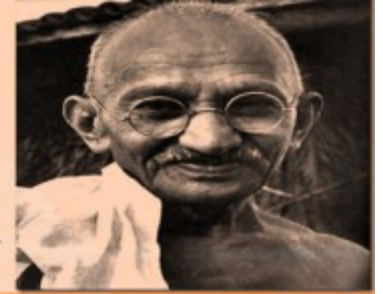
S.No	Name	Department
1	M.ADHISESHAN	Automobile
2	P.ASHVIN KUMAR	Automobile
3	P.R.BOOPATHI RAJA	Automobile
4	D.M.DINESHKUMAR	Automobile
5	V. KISHORE KUMAR	Automobile
6	D.KRISHNA KUMAR	Automobile
7	S.NAVIEN KUMAR	Automobile
8	S.SYED ZUBAIR	Automobile
9	R.S.KANNAN	Automobile
10	R.HARIHARASUDHAN	Mechanical
11	A.KARTHIK	Mechanical
12	S.KARTHIKEYAN	Mechanical
13	R.MADHU	Mechanical
14	M.SANTHOSH	Mechanical
15	M.SREEDHAR	Mechanical
16	H.THABRESH ALI AHMED	Electrical and Electronics
17	S.GOWTHAM PRABHU	Electrical and Electronics
18	S.SATHISH	Electrical and Electronics

Faculty advisor: Dr. N.RAJAMANICKAM, Associate professor, Automobile Engineering.





## Mahatma Gandhi



In a gentle way, you can shake the world

### **ABOUT SUPRA**

The SUPRA SAEINDIA competition challenges teams of University undergraduate and graduate students to conceive, design, fabricate and compete with their own small, formula style, autocross racing cars. SUPRA SAEINDIA organizing committee wishes to give the participating teams the maximum design flexibility and the freedom to express their creativity and imaginations and hence, there are very few restrictions on the overall vehicle design

### **TEAMS ARE ONLY PERMITTED TO USE MARUTI 800 CC BS 3 ENGINE AND POWER TRAIN SUPPLIED BY**

Maruti Udyog Ltd. Teams typically spend little over twelve months in designing, building, testing and preparing their vehicles before competition. The competition gives teams the chance to demonstrate and prove both their creativity and their engineering skills in comparison to the teams from other universities across the country





## கனினி...

எங்களுக்கு உயிராக நீ இருந்தாய் - ஆனால்  
உனக்கோ உயிர் CPU-வாம்...

காற்று இல்லாமல் நாங்கள் இல்லை  
மின்சாரம் இன்றியோ நீ இல்லை...

எங்களின் முக்கிய பாகங்களோ பல  
உனது முக்கிய பாகங்களோ இரண்டு.

ஒன்று மென்பொருளாம்

மற்றொன்று வன்பொருளாம்...

எங்களுக்கு நீ பல வகைகளில் உதவுகின்றாய்

பல தகவல்களைச் சேமிக்க உதவுகின்றாய்

எங்களது வேலை வாய்ப்புகளைப் பெருக்குகின்றாய்

சில சமயம் பொழுதுபோக்காகவும் உள்ளாய்...

Internet வசதியின் மூலமோபல செய்திகளை அறிய உதவினாய்

Face book வசதியின் மூலமோ

எங்கள் நட்புவட்டாரத்தைப் பெருக்கினாய்

E-Mail வசதியின் மூலமோ

தகவல்களைப் பகிர்ந்து கொள்ள உதவினாய்...

நம் நாட்டவர்க்கும் மற்றவர்களுக்குமிடையே

தொடர்பாய் இருப்பது நீயே...

சிறியவர் முதல் பெரியவர் வரை

உன்னைப் பயன்படுத்தாதவர் இலர்.

அதனால்தான் என்னவோ - இன்று

உன்னைக் காணாத இடமே இல்லை...

உனக்கும் மற்றவைகளுக்கும் உள்ளது

ஒரு சில வித்தியாசங்கள் மட்டுமே.

அவையும் இருந்திருந்தால் - நீயும்

ஒரு 'உலக அதிசயமே'!!!





## Gopal Krishna Gokhale

Those who have conquered themselves...live in peace, alike in cold and heat, pleasure and pain, praise and blame...To such people a clod of dirt, a stone, and gold are the same...Because they are impartial, they rise to great heights

### AUTO

The opening ceremony of Scuderia Aves, their department association was held on 3rd August and it was done by Dr. K. Annamalai, a senior grade Assistant Professor from MIT, Chennai. The launching of AUTO SPARK, their newsletter was also held on the same day

### CSE

The inauguration of CSE Department Association, DigiFlash was held on 18th July. The Principle Architect from Aditi Technologies, Coimbatore, Mr. Sathish P. Subramaniam gave an inaugural address on Cloud Computing and also Ms. Teena Achamma Abraham, consultant-HR, Aditi Technologies, Coimbatore honored the function

Our Senior's Convocation ceremony was held on 21st July and on the same day we had an interaction session with our seniors

A webinar on BigData Technologies was organized on 31st July. Mr. Shyam Kumar Doddavula, Technical Analyst at Infosys conducted the session and about 25 colleges were connected for the session

A training session on PC Hardware and Peripheral was conducted on 2nd August for the second and third year students

The Computer Society of India, MCET Chapter held its opening ceremony and induction of new office bearers for the academic year 2012-13 on 10th July. Mr. N. Valliappan, CEO, EZ Vidya Pvt Ltd, Coimbatore and also the Secretary of CSI, Coimbatore chapter accepted to preside over the function and gave the Inaugural speech



There is no caste system. It is a sin to divide people on caste basis. The ones who are really of a superior class are the ones excelling in being just, intelligent, educated and loving



# Know Your World!!

## CIVIL

The civil department conducted the inauguration of their association, The Beavers, on August 1st. Mr. S. Ratnavel, Chief executive from Seeba constructions delivered the inaugural address and DR.A.RATHINAVELU, Technical and Personnel Officer, Professor & Head, Department of Computer Science and Engineering, MCET, Pollachi was the Guest of Honour

## ECE

Their department association ELINSTA was inaugurated on 14th July for the academic year 2012-13 by Mr. Chandrasekaran. S, Project manager, Bosch, Coimbatore

The ISA Student chapter inauguration was held on 1st August for which Mr. S. Vijaya Raghavan, ISA Prez, South India section was the guest

## EEE

The IEEE Association organized a guest lecture on 'Technologies in Automotive Application' by Mr. B. Naveen Kumar, Software Engineer, Bosch, Coimbatore on August 4th

Avera, The EEE Department Association was inaugurated on 9th July. The function was honoured by Shri. D. Ingersol, Scientist, ISRO Mahendragiri. He also gave a guest lecture about 'The Future of Energy for our students

## MECHANICAL

Mechanica, the department association's investiture was held on 14th July and Mr.N.Lakshmanan, R&D Manager, ELGI equipments was invited to honour the ceremony





My life is my message



## When God Created India - Funny Article

God was in the process of creating the universe.  
And he was explaining to his subordinates  
“Look everything should be in balance.  
For example, after every 10 deer there should be a lion.  
Look here my fellow angels, here is the country of the United States.  
I have blessed them with prosperity and money.  
But at the same time I have given them insecurity and tension....  
And here is Africa.  
I have given them beautiful nature.  
But at the same time, I have given them climatic extremes.  
And here is South America.  
I have given them lots of forests.  
But at the same time, I have given them lesser land so that they would  
have to cut off the forests...  
So you see fellows, everything should be in balance.  
One of the angels asked...  
“God, what is this extremely beautiful country here?”  
God said..... “Ahah...that is the crown piece of all.  
“INDIA”  
My most precious creation.  
It has understanding and friendly People.  
Sparkling streams and serene mountains.  
A culture which speaks of the great tradition that they live.  
Technologically brilliant and with a heart of gold.....  
The angel was quite surprised:  
“But god you said everything should be in balance.”  
God replied —  
“Look at the neighbors I gave them.”

**BY**

**MALAR VIZHLS  
2ND CSE A**



Do not say, 'It is morning,' and dismiss it with a name of yesterday. See it  
.for the first time as a newborn child that has no name  
.Beauty is truth's smile when she beholds her own face in a perfect mirror

Rabindra Nath Tagore



## **CURIOSITY SNAPS ITS FIRST COLOR LANDSCAPE IMAGE OF MARS**

The image, which you see above [click on it for full size], shows the landscape to the north of where Curiosity landed. What you see in the distance is the north wall and rim of Gale Crater. That's where Curiosity is going to explore. Initial estimates put the straight distance between the landing site and the outer rim at about 6.5 kilometers, though driving there might require a less direct route, estimated at around 12 kilometers



The picture was taken by an instrument called the Mars Hand Lens Imager (MAHLI). It's a camera mounted on the rover's articulated arm that doubles as a microscope. The arm is still stowed, so MAHLI is pointing outwards and is not fully horizontal (that's why the image is at a 30-degree angle)

**BY  
D.SHANMUGAPRIYA  
(BE-CSE 2ND YEAR)**





## Sarojini Naidu

When there is oppression, the only self-respecting thing is to rise and say this shall cease today, because my right is justice. If you are stronger, you have to help the weaker boy or girl both in play and in the work



Schordock expects even more footage as Curiosity continues its exploration of Gale Crater, the landing site chosen because it has both unique geological features and a mountain larger than Mount Rainier in Washington

We're looking for three things when we're trying to determine if an environment supports life," said Schordock. "The first is water, and earlier Mars missions confirmed that water existed in the past on Mars." Detection of the second and third compounds, carbon and a source of energy, can only be completed by analyzing the composition of rocks and other items found on the surface. Enter Curiosity's Chem-Cam, which shoots a laser capable of heating rocks until they turn into plasma and a camera that matches the color of the plasma to a known compound

In 2011, NASA's Wayne Zimmerman told a crowd of 200-plus that, because of the Mars Science Laboratory missions, "we have found a world that nobody could even imagine." With stunning imagery, he shared a glimpse of that world and left the audience eagerly awaiting the next leg of the journey

Lake Erie Nature & Science Center will pick up where Zimmerman left off with "Return to Mars," the latest entry in the Monthly SkyQuest planetarium series. The Aug. 11 program will recap Curiosity's journey and talk about what it might find as it explores the red planet

We hope to be able to present the latest footage direct from Mars," said Schordock. "The landing alone will be fascinating and I can't wait to see what else Curiosity will discover





## B.R.Ambedkar

Unlike a drop of water which loses its identity when it joins the ocean, man does not lose his being in the society in which he lives. Man's life is independent. He is born not for the development of the society alone, but for the development of his self



## PIQUE YOUR CURIOSITY: HITCH A RIDE ON NASA'S LATEST MISSION TO MARS

A little less than one year ago, Cleveland native and NASA Jet Propulsion Laboratory engineer Wayne Zimmerman visited Lake Erie Nature & Science Center to present an insider's view of NASA's Mars Exploration Program. Zimmerman, who leads development of advanced robotic arms and instruments used in the program, talked about his contributions to NASA's various expeditions to the red planet. He then screened a preview of what, at the time, was the forthcoming launch of Curiosity, the largest and most instrument-rich Mars Science Laboratory to date

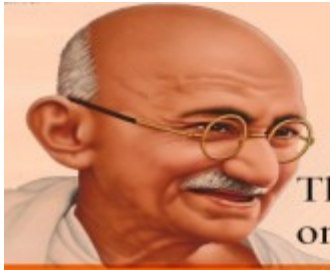
Curiosity, a mobile robotic exploration device, or rover (imagine a sophisticated Wall-E), has been charged with a mission to determine whether Mars, the planet most like Earth, contains evidence that it was ever a habitat for life



Curiosity, a mobile robotic exploration device, or rover (imagine a sophisticated Wall-E), has been charged with a mission to determine whether Mars, the planet most like Earth, contains evidence that it was ever a habitat for life

At time of writing, Curiosity is slated to wrap up its 8 1/2 month, 354 million mile journey to the surface of Mars in the early hours of Monday, Aug. 6. "If everything goes according to plan," says Lake Erie Nature & Science Center Planetarium Specialist Dave Schordock, "a high-definition imaging system making its debut on this rover will begin to record the remainder of the landing – and we'll actually feel like we are passengers returning to Mars"





The pursuit of truth does not permit violence on one's opponent



#### STANZA- 4

Ghoro Timiro Ghono Nibiro, Nishithey Peerito Murchhito Deshey Jagrato  
Chhilo Tabo Abicholo Mangalo, Noto Nayoney Animeshey Duhswapney  
Aatankey, Rokkhaa Koriley Ankey Snehamoyi Tumi Maataaa Jano Gano  
Duhkho Trayako, Jayo Hey Bhaarato Bhaagyo Bidhaataa Jayo Hey, Jayo  
Hey, Jayo Hey, Jayo Jayo Jayo, Jayo Hey

#### MEANING

During the bleakest of nights, when the whole country was sick and in  
swoon Wakeful remained Your incessant blessings, through Your lowered  
but winkless eyes. Through nightmares and fears, You protected us on Your  
lap, Oh Loving Mother Oh! You who have removed the misery of the people  
Victory be to You, dispenser of the destiny of India

#### STANZA- 5

Raatri Prabhatilo Udilo Rabichhabi, Purbo Udayo Giri Bhaaley Gaahey Bi-  
hangamo Punyo Samirano, Nabo Jibano Rasho Dhaley Tabo Karunaaruno  
Ragey, Nidrito Bhaarato Jagey Tabo Chorone Noto Maatha Jayo Jayo Jayo  
Hey, Jayo Rajeshwaro, Bhaarato Bhaagyo Bidhaataa Jayo Hey, Jayo Hey,  
Jayo Hey, Jayo Jayo Jayo, Jayo Hey

#### MEANING

The night is over, and the Sun has risen over the hills of the eastern horizon.  
The birds are singing, and a gentle auspicious breeze is pouring the elixir of  
new life. By the halo of Your compassion India that was asleep is now  
waking On your feet we lay our heads Victory, Victory, Victory be to You,  
the Supreme King, the dispenser of the destiny of India



# OUR TEAM

Individually, we are one drop. Together, we are an ocean



KEERTHNA.M (Editor-in-Chief)  
ashmurali@ymail.com

SHRUTHI.B (News Editor)  
shruthi.barbie94@gmail.com



RAJASURYA.R (Managing Editor)  
rajasurya1992@gmail.com



SHANMUGA PRIYA.D (Editor)  
pridha94@gmail.com



SURIYA.A (Article Editor)  
suriyaanandan13@gmail.com

ANAND M (Graphics Editor)  
anandzoey@gmail.com



SARANYA SREE.N.C (Editor)  
sarenya16@gmail.com



RAMANATHAN.O.V.G (G.EDITOR)  
ram.ramanathan99@gmail.com



MANIVANAN.D (Editor)  
manivannanapir1@gmail.com

BALAJI.D (Photo Editor)  
dbalajirockz@gmail.com



ARTHEE.C (College News Editor)  
arthee.sekar@gmail.com



SHANMUGAPRIYAN.M (P.Editor)  
shansms.8@gmail.com



ASHWIN.B (News Editor)  
reachashwin26@gmail.com

MAIL ID : digitimes@drmcet.ac.in

Your articles & critics are always welcomed  
digitimes12@gmail.com

Our sincere thanks to faculty coordinators  
Mr. K.Thirukumar and Mr. R. Selvam



**DIGITIMES**

Copyrights Reserved © DIGITIMES