

Jamia Millia Islamia

TECH Times 2010





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Jamia Millia Islamia
New Delhi - 110025

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From the Desk of the Editorial Team

The wait is finally over. An uneasy start, hundreds of creative minds at work, endless hours of designing and reviewing, and the latest issue of TECHTIMES is on the stands. Covering a plethora of every imaginable realm, the magazine is dedicated to the '*old school*' of free thinking. We have seen how commonwealth fever has gripped the pulse of the city. So, it qualified for the cover story naturally. However, it was truly surprising to see the active role of Jamia in this grand mega event. So dive in to gear up with the '*gyan*' from commonwealth games which was undoubtedly the most happening event of the year. Pack a punch with technology as we discuss 'The Physics of Time Travel', in engineering marvels. For those with a soft corner for nature and its continuous degradation we bring a sign of relief as we discover a set of technologies on eco-friendly science under the hood of 'Green Technology'. Get in touch with tours and fests of our faculty at the 'Faculty Corner'. And phew!! if the articles get too much with you, relax and reflect at our own 'Speaking Tree', which we term as the 'Socio-Economic' section. Presenting the facts as personally as possible we bring you stories straight from the heart. Face the stark reality of modern corporate life in heart rending columns like 'Highs and Lows' or bear (if you dare...) the crude hunger of male gawkishness in 'Reclaiming Lost Territories'. You say it and we've got it. Some interesting results await in our survey. Just, when we came up with question, (we assumed) that would bowl you over, you proved otherwise.

And finally this complete issue is a memento to those sleepless nights and never ending phone calls (the recharge top ups still hurt...) that made it possible. Words of encouragement from inside as well as universities across the nation were a great booster. The tranquility of working with such an amazing team and reading the emotions of entire batches of engineers will always count as lifetime experience. An ultimate thanks to our guides, Dr. Zahid A. Khan and Mr. Arshad Noor Siddiquee, for leading us from scratch to sheen. Francis Bacon remarked, "Some books are to be tasted, some to be swallowed and some to be chewed and digested". We hope our goes down beyond your appetite and meddle straight in your heart. So, take a silent corner, lower the volumes grab our annual issue and let the magic flow as your involuntary senses silently enjoy the much awaited reunion with our dear old pal, TECHTIMES.

Editorial Team

JAMIA MILLIA ISLAMIA

(A Central University by an Act of Parliament)

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1989-91**Bashiruddin Ahmed**
1992-96**M. A. Zaki**
1997-2000**Syed Shahid Mahdi**
2000-04**Mushirul Hasan**
2004-09**Message**

It is a matter of great delight to know that the faculty of engineering and technology is relaunching its annual magazine, Tech Times. This magazine provides an excellent platform to the students to showcase their ability and pen down their innovative ideas.

In this competitive age, it is essential for the students to come forward and participate in extra curricular activities apart from their regular curriculum. These kinds of opportunities inculcate team work and leadership skills in the students and help in overall personality development.

My deep appreciation for the teachers who were involved in initializing this endeavor. I wish the entire team of Tech Times all the luck for this issue and hope to see the active participation of students in such endeavors in the years to come.

Najeeb Jung
Vice Chancellor

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Professor Furqan Qamar
Vice-Chancellor

Message

I am delighted to know that the students and faculty members of the Faculty of Engineering of Jamia Millia Islamia have taken the initiative of bringing out a journal "TECHTIMES". The idea to bring out this journal will provide an opportunity to the brilliant young minds to contribute to the ever-expanding knowledge base. It promises better growth opportunities and excellence in education. I am sure that the student will take this initiative very seriously and would ensure that they would lay the foundation of a journal that is highly respected in the academic and professional circles and is known for high standards of ethics in publication.

Having been associated with Jamia Millia Islamia, as a faculty, for nearly three decades, I have seen the University and the Faculty of Engineering of the University making rapid strides. The University now has physical facilities and infrastructure that is second to none. The number of teaching, research and non-teaching staff has also grown significantly. The University has been attracting large number of students from all over the country. It means, we now have all the necessary conditions present for excellence. What we now need is enthusiasm, commitment and dedication towards the University and also towards the academics and professions that we pursue and much in this regard depends on the younger generation.

I wish the editorial board a grand success and hope that they would come out with a journal that is full of innovative and research-based contents.

Prof. Furqan Qamar
Vice Chancellor

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Prof. Syed Mohammad Rashid
Pro Vice-Chancellor



Message

An ongoing global recession has adversely affected almost all sectors of economy. Engineering and technology is no exception. Besides slowing down of growth, it has also resulted in the reduction of jobs prospects. Whereas the increasing number of professional getting relieved of the jobs, the young engineering graduates are also worried of their future. Under the given circumstances the Faculty of Engineering & Technology at Jamia needs to redefine its role and make additional efforts to produce vibrant engineering graduates who are equipped with thorough understanding of the subject, ability to choose appropriate technology and the professional competence to provide desired solutions to the enterprise they join. On the other hand, the young graduates of various branches of Engineering and Technology need to make added efforts to equip themselves to prove an asset to the enterprise they join. I am happy to note that the Faculty of Engineering & Technology of Jamia has long been conscious of the role it has to play in achieving these ends to the best of the satisfaction of its students. The "Tech Times" is certainly the result of such initiatives so taken.

I am confident that with further degree of professionalism the Departments of the faculty will continue to play its consequential role and adequately respond to the challenges posed by the global recession with high degree of accountability. This will certainly help in producing team of vibrant engineers with high degree of professionalism and sound ethical values that can prove themselves an asset for the industry and the nation. I wish the

I wish the editorial board of the magazine a success in their endeavor in bringing out Tech Times 2010.

Prof. Syed Mohammad Rashid
Pro Vice Chancellor

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Prof. Khalid Moin
Dean - Faculty of Engineering



Message

This academic session 2010-2011 marks a new beginning in the history of Faculty of Engineering & Technology, as it has completed its 25 years. In 1985, the first batch of students was admitted to B.Tech. courses in this faculty.

From a humble beginning in a temporary shed, the Faculty has made rapid advancements in all spheres, be it academic or creation of the infrastructure and facilities. Its alumni have also excelled in all walks of life. They have made a mark in the best companies of the private and public sectors, the institutions of higher learning both in India and abroad and distinguished services of IAS, IPS & IES. Many of them have established themselves as successful entrepreneurs.

Vice-Chancellor Mr. Najeeb Jung is taking keen interest in the development of this Faculty. Detailed plans are being worked to introduce new Postgraduate courses in the Civil Engineering, Electrical Engineering, and also in other branches and a Graduate course in Petroleum Engineering.

At this stage, we should also look back and see what the founders of this great institution wanted it to be. For Mahatma Gandhi, Maulana Mohammad Ali Johar, Abdul Majeed Khawaja, Mukhtar Ahmad Ansari, Jamia was not simply an academic institution, it was a movement, a movement to empower the socially underprivileged sections of the Indian Society through excellence in Education.

Today, we should once again rededicate ourselves to their mission, their movement. I wish all my students a very happy and successful academic year. I must congratulate the 'Tech-Times' team for bringing out such an excellent publication.

Prof. Khalid Moin
Dean - Faculty of Engineering

Commonwealth XIX: Jamia's Breakthrough

Jamia got the privilege to be selected by the govt. of India as a practice venue for table-tennis and Rugby 7's. The preparatory plans including inter-state competitions as dress rehearsals were organized well ahead of the games on 3-14 Oct. The 'commonwealth fever', at the campus was on hilt during the preparations. The Vice-Chancellor Mr. Najeeb Jung affirmed his commitment to make the mega-sporting event a grand success. "Jamia has a huge tradition of sports. We have produced players like Virender Sehwag", he remarked.

Ahead of the games, Jamia sports complex was completely renovated. An estimated sum of about 43.5 crore was spent to create world class infrastructure of the venue. "The stadium is state-of-the art. Its world class and players will have a nice time preparing themselves", he added. RITES Ltd., owned by the Indian Railways undertook the task of construction on behalf of Jamia. Facilities were at par or even better than international standards.

Developed in different layers (of sand, stones, etc.) the ground featured internal drainage system. It was surfaced with 'Bermuda Grass', from South Africa. Huge floodlights were installed for practice during night. The adjoining football ground was also revamped for auxiliary preparations. Apart from Rugby 7's, table tennis practices were facilitated in the indoor stadium. All in all, the stadium emerged as a grand bonanza for the sporting event.

The contribution of Jamia to the games extended beyond the practice venue. Under the National Service Scheme (NSS), Jamia sent 1000 volunteers for the CWG. The VC appointed Prof. Zubair Meenai, Dean Student Welfare, to co-ordinate with the ministry of Youth Affairs and Sports for the event. Mr. Noor Mohammad, director of Sports and Games at Jamia supervised the preparations.

Ultimately, the games came down to one thing: support and effort. Jamia proved its mettle again by organizing this grand and successful mega-event.



Waqas Afsar
B.Tech. (Comp.) 4th year

Owais Ahmad
B.Tech. (Comp.) 4th year

Come Out and Play

Delhi is all set for its biggest event ever Commonwealth Games 2010. To standardize all the facilities in the capital city, the Government is provided Delhi with a wonderful make-over in every aspect. There were a number of issues to look after when it came to arranging for the costliest event of the country ever. In this regard, the Government worked tirelessly on transportation, accommodation, security, electricity, sightseeing and every possible sector.

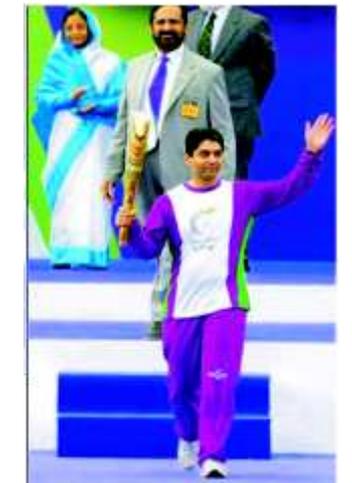
To facilitate the guests in the city in October 2010 roads, flyovers, stadiums, shopping malls, security, power backup, and hotels everything went under the process of advancement. To provide the athletes and officials with free accommodation, a modern-comfortable Games Village was designed on National Highway 24, near Akshardham Temple. The Games Villas were facilitated with all kinds of high-end health facilities, security, pollution-free environment, transportation etc.



For better transport, almost all the interior and nearby areas are linked by Metro Rail. Apart from this hassle free mode of transportation, a broad lane was also reserved on selected highways for the participants.

To overcome the language issue with all the taxi/cab and auto rickshaw drivers, the Government designed a scheme under which about 1,000 people learnt English every month. As the Games in 2010 also strengthened tourism factors in India, this English teaching scheme was also applied to the nearby tourist destinations like Agra, Mathura, Bhopal, Gwalior, Gaya, Puri, Jaipur etc.

The power production capacity was increased to about 7,000 MW in Delhi (from the previous 4,500 MW). Apart from the above mentioned facilities, a free trip to the wonder monument Taj Mahal was also provided to all the athletes by the Indian Government.



Abhishek Dugtal
B.Tech. (E&C) 4th year

Legacy of Glory

A rich heritage shining amidst athletic arena, commonwealth games occupy some golden pages of history.



What now invites 8500 sportsmen from 71 countries making it the third-largest multisport event in the world, started with a humble request from the Reverend Astley Cooper. The aim was to bring together member countries of British Commonwealth. Starting in 1930 under the logo of 'British Empire Games', with events like boxing, wrestling, swimming and athletics (which still comprise the core area of the games), the commonwealth games drew immense popularity in and across the commonwealth countries. The title of 'Commonwealth games', was coined in 1978 games at Edmonton, Canada which marked a new high, witnessing as many as 1500 athletes from 46 countries. With their headquarters in London, England the games are supervised by a Commonwealth Secretariat, currently presided by hon. Michael Fennel.

'HUMANITY-EQUALITY-DESTINY', became the motto at the games. It instilled the players with a new passion to compete at their apex. Emotions ran high at many a memorable instances, be it Keiran Perkins double world records (800m and 1500m freestyle), in a single race or Philip Adams pistol shot that made him maximum medal winner of the commonwealth games.

The commonwealth games were never short of traditions (British of course...). The Queen's Baton Relay, similar to the Olympic Torch Relay, is a relay around the world held prior to the beginning of the Commonwealth Games. The Baton carries a message from the Head of the Commonwealth, currently Her Majesty Queen Elizabeth II. The Relay traditionally begins at Buckingham Palace in London as a part of the city's Commonwealth Day festivities. The Queen entrusts the baton to the first relay runner. At the Opening Ceremony of the Games, the final relay runner hands the baton back to the Queen or her representative, who reads the message aloud to officially open the Games. Military in the commonwealth games is more active than Olympics to uphold, military traditions of the old empire.

As Delhi embraced Commonwealth games with open arms we witnessed a happening winter and indeed, became a proud tinkle in its 'legacy of glory'.

Burhan Rais
B.Tech.(Comp.) 4th year

WiMAX: Revolutionizing Broadband Access

"Any sufficiently advanced technology is indistinguishable from magic." This seems true for the new technology which is taking over current modes of accessing the world wide web. First let us think about how we access the Internet today. There are basically three different options. Earlier, *Dial-ups* were used, through the telephone line. With maximum speed up to 56 kbps. *Broadband access* - In your home, you have either a DSL or cable modem. At the office, your company may be using a T1 or a T3 line, which are dedicated, leased lines which offer data bandwidths of around 45-50 Mbps. *WiFi access* - In your home, you may have set up a WiFi router that lets you surf the Web while you lounge with your laptops. On the road, you can find WiFi hotspots in restaurants, hotels, coffee shops and libraries.

The main problems with broadband access are that it is pretty expensive and it doesn't reach all areas. The main problem with WiFi access is that hot spots are very small ranging up to 100 m radius, so coverage is sparse. What if there were a new technology that solved all of these problems? This new technology would provide the *high speed* of broadband service, *wireless* rather than wired access, so it would be a lot less expensive than cable or DSL and much easier to extend to suburban and rural areas up to a radius of 30 mile or 50 km, broad coverage like the cell phone network instead of small WiFi hotspots. I am sure you would have guessed the name of this new technology, 'WiMAX'.

The main problems with broadband access are that it is pretty expensive and it doesn't reach all areas. The main problem with WiFi access is that hot spots are very small ranging up to 100 m radius, so coverage is sparse. What if there were a new technology that solved all of these problems? This new technology would provide the *high speed* of broadband service, *wireless* rather than wired access, so it would be a lot less expensive than cable or DSL and much easier to extend to suburban and rural areas up to a radius of 30 mile or 50 km, broad coverage like the cell phone network instead of small WiFi hotspots. I am sure you would have guessed the name of this new technology, 'WiMAX'.

WiMAX stands for Worldwide



Interoperability for Microwave Access, and it also goes by the IEEE name 802.16. It is a telecommunication technology that provides wireless transmission of data using a variety of transmission modes, from point-to-multipoint links to portable and fully mobile internet access. The technology is based on the IEEE 802.16 standard (also called Broadband Wireless Access). WiMAX has the potential to do to broadband Internet access what cell phones have done to phone access. In the same way that many people have given up their "land lines" in favor of cell phones. WiMAX could replace cable and DSL services, providing universal Internet access just about anywhere you go. In practical terms, WiMAX would operate similar to WiFi but at higher speeds, over greater distances and for a greater number of users. WiMAX could potentially erase the suburban and rural blackout areas that currently have no broadband Internet access.

A WiMAX system consists of two parts, A WiMAX tower, similar in concept to a cell-phone tower - A single WiMAX tower can provide coverage to a very large area -- as big as 3,000 square miles (~ 8,000 square km) and a WiMAX receiver - The receiver and antenna could be like a small box or some compatible hardware, they could be built into a laptop the way WiFi access is today. A WiMAX tower station can connect directly to the Internet using a high-bandwidth, wired connection (for example, a T3 line). It can also connect to another WiMAX tower using a line-of-sight, microwave link. This connection to a second tower (often referred to as a *backhaul*), provides this ability to a single tower to cover up to 3,000 square miles, is what that allows WiMAX to provide coverage to remote rural areas, that too without digging trenches and laying costly copper or delicate optical cables, that are prone to storm damage. The fastest WiFi connection can transmit up to 54 megabits per second under optimal conditions. WiMAX should be able to handle up to *70 megabits per second*. The biggest difference isn't speed; it's distance. WiMAX outdistances WiFi by miles. Wi-Fi's range is about 100 feet (30 m). WiMAX will blanket a radius of 30 miles (50 km) and that's huge.

Companies are evaluating WiMAX for last mile connectivity. The resulting competition may bring lower pricing for both home and business customers or bring broadband access to places where it has been economically unavailable. WiMAX access was used to assist with communications in Aceh, Indonesia, after the tsunami in Dec 2004. All communication infrastructures in the area, other than amateur radio, were destroyed, making the survivors unable to communicate with people outside the disaster area and vice versa. WiMAX provided broadband access that helped regenerate communication to and from Aceh. Some other potential applications include WiMAX based smart grids, live entertainment on the go, it has great applications in the medical industry and healthcare, it could also play a great role in untangling traffic problems and wireless video surveillance and lots more.

Thus due to these capabilities of delivering high-speed internet wirelessly, the low cost of implementation, and numerous potential applications, WiMAX has huge potential to become the world's popular broadband access method in the near future.

Fahad Ahmed
B.Tech. (E&C) 4th year

Designing Tools for Space

When NASA astronauts embarked on Servicing Mission 4 to the Hubble Space Telescope in May 2009, they brought with them a variety of specialized tools to perform the servicing operations in a zero-g, vacuum environment.

While the average craftsman may take his hand tools for granted, astronauts work in an environment that limits the types of tools that can be used. Justin Cassidy, the lead systems engineer for Crew Aids and Tools at Goddard noted, "the work astronauts would have to do (is comparable) to opening up a computer and replacing a board while wearing thick gloves on their hands and a fishbowl on their head."

Types of Space Tools

There are three types of tools used by astronauts both inside the Shuttle and the ISS, as well as outside:

- Crew Aids – hand rails, foot restraints, tether devices. These are generally passive devices that help astronauts maneuver and brace themselves as they work both inside and outside of crew spaces. However, the ISS has a 200-foot network of rail lines with cable-driven controls integrated into the truss' design to serve as transportation for astronauts and equipment.
- Hand Tools – These manual tools help astronauts perform tasks that are difficult to perform while wearing gloves. Some hand tools include a washer extraction tool, fastener capture plates, and specialized fixturing.
- Power Tools - The primary power tool used by astronauts is a pistol-grip tool, similar to a cordless drill. This version is designed to rotate at about 15 RPM. A specialized mini pistol-grip tool was developed for the Hubble Servicing Mission that had a faster rate, about 210 RPM, to allow astronauts to remove the many screws on the telescope components quickly.

Engineers have also developed specialized tool holders and fixtures that attach to the astronaut's space suits to hold tools and components for specific operations.

Requirements for Space Tool Design

When in space, astronauts live and work in a hostile environment that is different in many ways from working on earth. For example, the lack of gravitational effects while in orbit causes astronauts to modify most of their actions. Much of the equipment in spacecraft is specially designed for zero-g operations, and this design specialization is particularly applicable to tools. Some of the requirements for tools for space operation include:

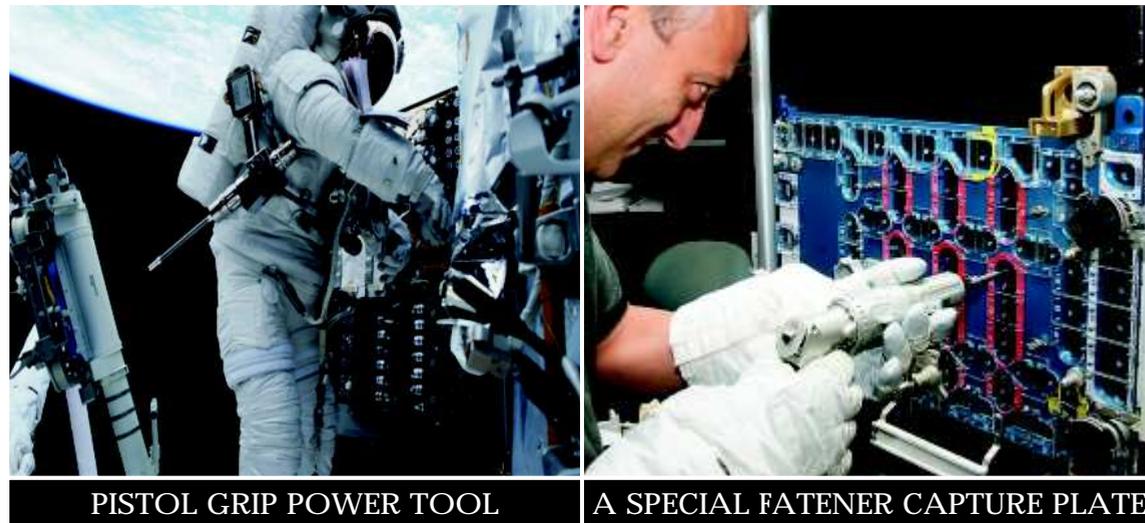
- ? A minimal tool weight so as not to impact total vehicle weight
- ? Cannot cause tears or cuts

- ? Must be operational in temperatures from -150F to + 150F
- ? Must be operational in a vacuum environment
- ? Must be operational while wearing pressurized gloves
- ? Must be able to withstand launch forces and vibrations

Other requirements may be added to individual tools based on specific servicing functions.

Where are Space Tools Designed?

The tools for the Hubble Space Telescope repair missions were developed by the Hubble Space Telescope Extravehicular Activity Team at the Goddard Space Flight Center in Greenbelt, MD. Goddard is the centre for the development and testing of tools and devices for all NASA operations.



PISTOL GRIP POWER TOOL

A SPECIAL FATENER CAPTURE PLATE

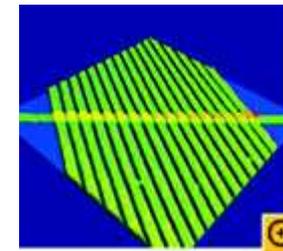
Engineers at Goddard have a detailed understanding of the requirements of space flight and operation, and spend years designing, building, and testing tools to be used by astronauts. Prototype tools are tested by astronauts in the Neutral Buoyancy Laboratory at NASA's Johnson Space Center in Houston. The astronauts provide feedback to the Goddard engineers about usability so that the designs can be optimized before the Shuttle ever leaves Earth.

Astronauts rely heavily on the functionality and quality of their tools and devices while operating in space. Engineers provide a significant service in ensuring these tools meet the needs of the astronauts.

Daud Ahmad
B.Tech. (Comp.) 4th Year

The Future of Your PC's Hardware Memristor: A Groundbreaking New Circuit

Memristor circuits lead to ultrasmall PCs. Intel and AMD unleash massively multicore CPUs. Samsung TVs respond to your every gesture. These and other developing technologies will fundamentally change the way you think about--and use--technology.



Since the dawn of electronics, we've had only three types of circuit components--resistors, inductors, and capacitors. But in 1971, UC Berkeley researcher Leon Chua theorized the possibility of a fourth type of component, one that would be able to measure the flow of electric current: the memristor. Now, just 37 years later, Hewlett-Packard has built one

What is it? As the name implies, the memristor can "remember" how much current has passed through it. And by alternating the amount of current that passes through it, a memristor can also become a one-element circuit component with unique properties. Most notably, it can save its electronic state even when the current is turned off, making it a great candidate to replace today's flash memory.

Memristors will theoretically be cheaper and far faster than flash memory, and allow far greater memory densities. They could also replace RAM chips as we know them, so that, after you turn off your computer, it will remember exactly what it was doing when you turn it back on, and return to work instantly. This lowering of cost and consolidating of components may lead to affordable, solid-state computers that fit in your pocket and run many times faster than today's PCs.

Someday the memristor could spawn a whole new type of computer, thanks to its ability to remember a range of electrical states rather than the simplistic "on" and "off" states that today's digital processors recognize. By working with a dynamic range of data states in an analog mode, memristor-based computers could be capable of far more complex tasks than just shuttling ones and zeroes around.

When is it coming? Researchers say that no real barrier prevents implementing the memristor in circuitry immediately. But it's up to the business side to push products through to commercial reality. Memristors made to replace flash memory (at a lower cost and lower power consumption) will likely appear first; HP's goal is to offer them by 2012. Beyond that, memristors will likely replace both DRAM and hard disks in the 2014-to-2016 time frame. As for memristor-based analog computers, that step may take 20-plus years.

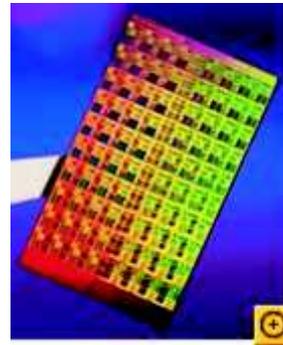
32-Core CPUs From Intel and AMD

If your CPU has only a single core, it's officially a dinosaur. In fact, quad-core computing is now commonplace; you can even get laptop computers with four cores today. But we're really just at the beginning of the core wars: Leadership in the CPU market will soon be decided by who has the most cores, not who has the fastest clock speed.

What is it? With the gigahertz race largely abandoned, both AMD and Intel are trying to pack more cores onto a die in order to continue to improve processing power and aid with multitasking operations. Miniaturizing chips further will be key to fitting these cores and other components into a limited space. Intel will roll out 32-nanometer processors (down from today's 45nm chips) in 2009.

When is it coming? Intel has been very good about sticking to its road map. A six-core CPU based on the Itanium design should be out imminently, when Intel then shifts focus to a brand-new architecture called Nehalem, to be marketed as Core i7. Core i7 will feature up to eight cores, with eight-core systems available in 2009 or 2010. (And an eight-core AMD project called Montreal is reportedly on tap for 2009.)

After that, the timeline gets fuzzy. Intel reportedly canceled a 32-core project called Keifer, slated for 2010, possibly because of its complexity (the company won't confirm this, though). That many cores require a new way of dealing with memory; apparently you can't have 32 brains pulling out of one central pool of RAM. But we still expect cores to proliferate when the kinks are ironed out: 16 cores by 2011 or 2012 is plausible (when transistors are predicted to drop again in size to 22nm), with 32 cores by 2013 or 2014 easily within reach. Intel says "hundreds" of cores may come even farther down the line.



Photograph: Courtesy of Intel

Asim Ahmad
B.Tech. (Comp.) 4th Year

The Physics of Time Travel

Time travel has been a staple with science fiction writers over the better half of the last century. Overused, and generally misused, the genre nevertheless fails to lose its charm. Unfortunately though, credibility-wise, it fares little better than "well-scientified" fairytales, a relatively-solid base in relativistic physics notwithstanding.

$$t_r = t_n \sqrt{1 - v^2/c^2}$$

The above equation from 2nd semester physics implies that time passes more slowly for objects moving at velocities comparable with c . Consider a space crew, propelled at $.999999c$ that returns to earth after 1 year (in the crew's frame of reference). Putting $t_r = 1$ and $v = .999999c$ in the above equation, we get the value of t_n as 707, implying that 707 earth years would have passed by the time the crew landed!

That's not all. Closed time-like curves provide a way to revert to a point in our past. Time-like curves denote the possible space-time trajectories for a body with $v < c$. If a trajectory loops, i.e. the curve is closed, we can go back to a point in time and space which we have already visited. Several such trajectories are known to exist.

Another controversial solution involves travelling at velocities faster than light. Consider an event (A) that denotes the throwing of a ball in air, and an event B that denotes its return into the thrower's hand. As long as we are moving with subluminal velocities, event A will take place before event B in every frame of reference. But as soon as we cross the speed of light, there will always be some valid frame of reference in which the event B occurred before event A i.e. the ball proceeded from landing back in the thrower's hand to being thrown by him. In other words, the ball will appear to be moving back in time. Moreover, since one of the laws of special relativity says that the principles of physics are the same in every frame of reference, moving back in time should be possible in all other frames as well.

Finally, these and other plausibilities (like wormholes) remain plausibilities only, as the technology to make them feasible appears to be light years away.

Daud Khan
B.Tech. (Comp.) 4th Year

The Love of God with Beauty of Mathematics

Since math is a problem for some of us!

The Beauty of Mathematics and the Love of God! This is TOO cool!

Just the math part is good enough, the end is even better.

Beauty of Mathematics!!!!!!

$$1 \times 8 + 1 = 9$$

$$12 \times 8 + 2 = 98$$

$$123 \times 8 + 3 = 987$$

$$1234 \times 8 + 4 = 9876$$

$$12345 \times 8 + 5 = 98765$$

$$123456 \times 8 + 6 = 987654$$

$$1234567 \times 8 + 7 = 9876543$$

$$12345678 \times 8 + 8 = 98765432$$

$$123456789 \times 8 + 9 = 987654321$$

$$1 \times 9 + 2 = 11$$

$$12 \times 9 + 3 = 111$$

$$123 \times 9 + 4 = 1111$$

$$1234 \times 9 + 5 = 11111$$

$$12345 \times 9 + 6 = 111111$$

$$123456 \times 9 + 7 = 1111111$$

$$1234567 \times 9 + 8 = 11111111$$

$$12345678 \times 9 + 9 = 111111111$$

$$123456789 \times 9 + 10 = 1111111111$$

$$9 \times 9 + 7 = 88$$

$$98 \times 9 + 6 = 888$$

$$987 \times 9 + 5 = 8888$$

$$9876 \times 9 + 4 = 88888$$

$$98765 \times 9 + 3 = 888888$$

$$987654 \times 9 + 2 = 8888888$$

$$9876543 \times 9 + 1 = 88888888$$

$$98765432 \times 9 + 0 = 888888888$$

Brilliant, isn't it?

And look at this symmetry:

$$1 \times 1 = 1$$

$$11 \times 11 = 121$$

$$111 \times 111 = 12321$$

$$1111 \times 1111 = 1234321$$

$$11111 \times 11111 = 123454321$$

$$111111 \times 111111 = 12345654321$$

$$1111111 \times 1111111 = 1234567654321$$

$$11111111 \times 11111111 = 123456787654321$$

$$111111111 \times 111111111 = 12345678987654321$$

Mind Boggling....

Now, take a look at this... 101%

From a strictly mathematical viewpoint:

What Equals 100%?

What does it mean to give MORE than 100%?

Ever wonder about those people who say they are giving more than 100%?

We have all been in situations where someone wants you to

GIVE OVER 100%...

How about ACHIEVING 101%?

What equals 100% in life?

Here's a little mathematical formula that might help answer these questions:

If:

A B C D E F G H I J K L M N O P Q R S T U V W X Y Z

Is represented as:

1 2 3 4 5 6 7 8 9 10 11 12 13 14 15 16 17 18 19 20 21 22 23 24 25 26.

Then:

H-A-R-D-W-O- R- K

$$8 + 1 + 18 + 4 + 23 + 15 + 18 + 11 = 98\%$$

And:

K-N-O-W-L-E- D-G-E

$$11 + 14 + 15 + 23 + 12 + 5 + 4 + 7 + 5 = 96\%$$

But:

A-T-T-I-T-U- D-E

$$1 + 20 + 20 + 9 + 20 + 21 + 4 + 5 = 100\%$$

THEN, look how far the love of God will take you:

L-O-V-E-O-F- G-O-D

$$12 + 15 + 22 + 5 + 15 + 6 + 7 + 15 + 4 = 101\%$$

Therefore, one can conclude with mathematical certainty that:

While Hard Work and Knowledge will get you close, and Attitude will get you there, It's the Love of God that will put you over the top!

Javed Khan
Ph.D (Mech.)

“Two men started for the same destination. I chose to take the road less travelled. It made all the difference.”

*-Excerpt from the inauguration speech at
ALGORYTHM 2009*

Started in 2002 by a dozen of crazy technogeeks, the CSI JMI Chapter made its 'baby steps' under the supervision of visionaries like Prof. M N Doja, Mr. Sohrabuddin and Mr. Tanveer Ahmad. Speeding in full throttle ever since, CSI JMI Chapter has acquired a zenith with thousands of overzealous members and innumerable credits to its fame. With its headquarters in Mumbai, CSI is the premier organization that provides the working platform for the intellects and innovatives of our times. Likes of Dr. A P J Abdul Kalam have nourished the faction with their valuable efforts.

At Jamia CSI has become the watchword owing to its wide range activities throughout the year. A 'ROBOTICS workshop' was organized by Innovatics Solutions Private Ltd. to bring in the much needed awareness about embedded systems and the role of automation in near future. Another workshop hosted by engineers from Germany taught the students about creating web spaces using latest web designing tools like 'Druple'. Apart from technical jargon a series of cultural events like EXTEMPORE, 'T-Shirt' painting, 'Rangoli' design, Face painting, etc. are arranged throughout the year to keep the artists at their heels.

However, the CSI'tes are seen in their full vigour and bloom at the annual techno-cultural fest of ALGORYTHM. Attended by a flood of students from the engineering colleges of Delhi and NCR, the event scales registration beyond 2000 mark. Inaugurated by the steel baron Mr. Navin Jindal, ALGORYTHM10 hosted events ranging from technical paper presentations to nukkad natak. While some participants were glued to the screen, trying C programs, others were balancing their tyres, in slow bike race. Evening brought with itself a heavy dose of adrenalin, as the stunts of 'Korrupt Ryderz' and the perfect drifts from stunt cars left the audience gasping for air. The moolah continued for the next day and the fest completed with an electrifying performance from rock bands like Phoenix, THQ Corp., Etc.

Apart from the glamsham the members of the group prefer to work in solace. With thousands of active members and still increasing, we count a high probability that you may stumble around the alumnis of CSI JMI Chapter in the nook and corners of IIM's or top MNC's. As for the newbies, we suggest you better learn the CSI lingo. So, the next time you board a train without ticket and notice a faint recognition from a face staring at you, all you need to say is, "Hey I was at CRUX-the quiz event". The reply, "Oh, I co-ordinated BRIDGING-THE-GAP", will come with a much needed seat in the chaos. The chances are really high. And, believe me it works.

Fahad Anwar
Chairman CSI JMI Chapter

IEEE-JMI

IEEE stands for the Institute of Electrical & Electronics engineers, it was established in 1884 by a group of electrical engineers. IEEE consists of about 380,000 members in 150 countries with its headquarters located at New York. It produces about 30% of the world's literature in electrical engineering, computers, control technology etc.

IEEE membership provides innumerable educational opportunities to ensure an engineer's technical vitality. It helps discover career opportunities and enables an individual to gain competitive edge with IEEE Spectrum and various other IEEE potential magazines. The Student Branch of IEEE in the Faculty of Engg. & Technology at JMI was established in the year 1992. It was reactivated by the unstinted efforts of Prof Mini S. Thomas, Branch Counselor in November, 2000 with the address of Prof Saifur Rehman, Director, Alexandria Research Institute, Virgin Tech., USA. Activities such as workshops, seminars, paper presentation sessions, quiz competitions, group discussions and debates are regularly organized to provide an excellent opportunity to the student members to gain invaluable experience in event management while at the same time operating new avenues for the budding technocrats.

The student membership of our branch presently stands at over a 180 members and also aims to grow from strength to strength in the years to come. The IEEE Student Branch, JMI is currently one of the most active branches in the R-10 branches and we hope to carry this flame a long way in the time that lies ahead.

IEEE ACTIVITIES IN 2009

1. ENCOMIUM 2009

The IEEE Jamia Millia Islamia Student Branch organized the 9th edition of its annual technical cum cultural fest ENCOMIUM-09 "An Intellectual Odyssey" on 3rd and 4th of October, 2009. The event captured the imagination of youth across the NCR with over 15 inter college events organized where in students could compete with probably the best in the region. The two day extravaganza gave ample opportunities to budding engineers as well as management aspirants to showcase their talent in events like the Technical Paper Presentation, Business Plan competition and many more. All this interspersed with scores of informal events like who dare wins, futsal, street play, junkyard wars etc.

2. IEEE QUARTERLY MEET

The eighth edition of quarterly meet was held in IEEE JMI on Sunday i.e. on 21st March 2010 in the Faculty of Engineering and technology, Jamia Millia Islamia. Quarterly meets are organized in different student branches every three months to discuss the working of each IEEE student branch of Delhi section and to find possible solutions for the problems and the progress in the

implementation of GINI(global integrated network of IEEE) and to build communication network among different IEEE student branches. In this quarterly held in JMI around 75 students from fifteen different engineering colleges participated. The meet comprised of three sessions i.e. session 1, 2 and 3 respectively the details of which are as follows.

3. IEEE WIE WEEK

The WIE (Women in Engineering) society of IEEE JMI is a special affinity group of IEEE JMI and has been always a harbinger of Women empowerment. It constantly strives for the excellence of women and its efforts have been a huge success till date. WIE has now come a long way and in an attempt to further work for the strengthening of the women WIE society of IEEE JMI organized the WIE week from 16 March to 18 March. The WIE week that was organised in the premises of JMI brought an extravaganza! A host of events were organized ranging from Group Discussion and JAM(Just A Minute) to junkyard, t-shirt painting and movie quiz, all knowledge and fun!

Ritika Bhalla
B.Tech. (Comp.) 4th year

Germany Visit

Department of Civil Engineering has an academic exchange programme with the University of Applied Sciences, Erfurt, Germany. This programme is supported by DAAD (German Academic exchange Services). Under this series, Prof Khalid Moin and Dr. Sirajuddin Ahmed from Department of Civil Engineering along with five students of B.Tech. (Civil) final year, visited Germany from 15th October to 25th October. Presentations made by Jamia delegates, in the workshop organized by University of Applied Sciences, Erfurt were very much appreciated, specially by Vice President of the University. The delegates also sites of architectural and civil engineering interest in the cities of Frankfurt, Berlin and Weimer.



Sun Rises In The East!!

An awesome trip to Goa brought us the much needed leisure, high adventure and taught us a few basics of Geography.

It started one fine morning at the parliament of ideas, canteen of course. The idea soon evolved and before we knew we were boarding "Goa Samparkranti" at Nizamuddin railway station. The journey which spanned four states and 30 hours sparked many rib tickling hilarious moments. And alas, the first gush of air from the Arabian coast felt like monsoon over barren lands. The adventure started within no time. Moments after 'check-in' at Delta Regency we rushed to the splendid 'Calingute Beach', only a minute away from our hotel. Diving in the cool waters with my best pals and tourists from across the planet was indeed an-event-of-a-lifetime experience. We spent our major time in visiting the grand gothic churches and the beautiful beaches. The churches of 'Bom Jesus' and 'St. Francis' displayed the amazing old architecture and major events in the history of Goa. A serene atmosphere soon took over where many believers swayed in unison with God. Be it Anjuna, Vagator or Baga, every beach in Goa has an aesthetic and yet frivolous aura of itself. On a visit to Aguada Fort we got a chance to inspect a large lighthouse and capture those amazing sceneries that marked the image of Amir Khan starrer 'Dil Chahta Hai'. At Dauna Paula the students were busy to name the Bollywood flicks where they saw it, while stranger couples kept cosying around corners. And a cruise in the heart of Goa's capital(Panaji), saw many unusual feet tapping to the rhythm of heavily addictive music. Shopping acquired a whole new charisma as we rubbed shoulders with a varied and international crowd to scan the best hippie markets across the globe. The hotel itself, offered a refreshing swimming pool and lavishly decorated lounge to relax.

However, fun began early morning on the last day. We woke up before dawn and sped for the beach to witness sun rising from the ocean. Mesmerised by the sunset at the previous evening we had decided to go for the sunrise. On the previous evening sun has dived in the horizon so we kept staring in the endless waters, waiting for the first ray of light. We kept waiting. The sky lit up and to our surprise we noticed that the morning rays were warming our backs. What a dozen B.Tech students and their teachers forgot was that sun sets in the west and rises from the opposite direction i.e. east. We laughed at our foolery for many days. Before leaving we braved the water scooters deep in the heart of ocean for a truly adventures experience.

The return was rather tired up and while the train swept past palm trees I realised why Goa is called 'The Heaven On Earth'.

Farrukh Chisti
On the tour of B.Tech.(Comp.) 4th year students

An Interview with Prof. Abid Haleem, Head - Mechanical Engg. Department, JMI

Professor Abid Haleem was born in 1962 in Lucknow, did schooling from Colvin Talukdars School, Lucknow, received B.Sc. Engg. & M.Sc. Engg. From AMU – Aligarh with distinction in 1985 & 1987 respectively, Ph.D. from IIT (D), Deptt. Of Mechanical Engineering 1995.

He has teaching research / administrative experience of more than 20 years. He has contributed to the academic world both within Jamia and out side Jamia. He is on the advisory panel of various industries. His major contributions & achievements are given below :

International Industry Project

1. Principal Investigator, for, ongoing Department of Science and Technology, sponsored research project on Technology Forecasting and Technology Assessment, of Rs 14.50 Lacks. (2010).
2. Green Practices, Joint research, teaching programmes and international activities collaboration with the School of Built Environment at the University of Salford. (U.K) 2007-2009
3. Performed project on “SMC Dialog Plus of Allen Bradley”, at Milwaukee School of Engineering, Milwaukee, Wisconsin, USA. Project sponsored by Rockwell Automation, USA. It was teamwork with researchers and professors from 13 countries from 2nd July to 14th August' 2001.

MORE THAN 80 RESEARCH PAPERS PUBLISHED PROFESSIONAL ACTIVITIES / POSITIONS

- ? Independent Director for Telecom Consultants of India limited , (A Govt. of India enterprise) since July 2008
- ? Honorary Visiting Professor at IITD
- ? Independent Director with Department of public Enterprises by Ministry of Industry, Government of India. 2007
- ? Consultant to Educational Consultants of India (EdCIL), Department for International Development (DFID), Government of Orissa etc.
- ? Editor (Asia Pacific) to Global Journal of flexible Systems Management, An International Journal catering to the area of Flexibility
- ? Member, Governing Council, Global Institute of Flexible Systems Management (GIFT) Involved in publication of “Global journal of Flexible Systems management and organizing International Conferences, National events, Seminar series, conferences etc. on the theme and allied areas of Flexibility.

Interaction session with Professor Abid Halim (AH) and Tech Times Team (TTT) :

- TTT *What does it mean to be a HOD of Mechanical Engineering Department?*
 AH Running department is "Constraint optimization problem". Your action have long term implication. You become role model for your students, and others. Being part of a large university setup, decision making, leading, planning, controlling the department becomes elusive.
 Ours being professional department has different sets of problem and solution However, you have enough to motivate, and provide vision.
- TTT *What is the most challenging situation you faced during your term as a Head?*
 AH Development of a World Class Work Environment, where everybody can grow and excel. Students should innovate and I have to provide dynamism.
- TTT *What qualities do you think are needed to load a group of such an elite and qualified faculty?*
 AH Vision, determination with patience, positive attitude and academic excellence. No doubt support of the top boss.
- TTT *What are your future goal for the welfare of students teacher and technical staff?*
 AH Goal for welfare of teachers and technical and support staff is providing them with a world class environment where they have their strong relationship with the department. Hence they can excel and work towards the achievement of goal and mission.
 Student should get an environment they can get trained for future professionalism. I want my students to be innovative, full of energy with confident clear goals.
- TTT *What are your views regarding the placement of Mechanical Engineering? How does HOD play role in placement of students?*
 AH Looking in-to the 'good' of students, teachers, processes and overall resources our placement are not true representative. This may be because of.
- a) A complex among students that they are not as good as IIT or best foreign schools.
 - b) Lack of industry exposure, practice school
 - c) Clarity of goal among our students
 - d) Poor marketing of our products. (Students and courses)
 - e) HOD has important role. Head need to develop a good image outside. He should do marketing. Use his resources to invite good companies.
 - f) organize industrial visits, fair in colleges about emerging technologies
 - g) Live Projects need to be appreciated & funded on students responsibility
 - h) Seniors teachers should teach at-least the basic (core) subjects in 1st, 2nd and 3rd year.
- TTT *What is your advice for students?*
 AH They needed strong industry exposure. They had to correlate class teaching with industry practices.

They should not be complacent. They should be full of energy. The attitude should be "learning is students responsibility" than "teaching is department responsibility" They should develop strong personality with confidence positive attitude and clarity of goals and mission.

They should be proud of being part of Jamia Millia Islamia, a central university.

Being a low fees institute student develop attitude of not spending money on looks, outside training and acquiring other learning resources. They should try to think out of the box.

Use the holidays to the fullest (projects, industrial visits, technical reports, papers, online competition national or international)

Be updated with other colleges (attend seminars, conferences, fairs etc being held in other major colleges for example IIT D, etc)

TTT *As our department is oldest in this faculty, now do you think its development work has gone so far? Are the professor satisfactory?*

AH Our biggest constraint is space and attitude

TTT *Now what are your views regarding an Annual Technical fest to be organized by our department?*

AH Our being a predominantly day college. Our students commitment, mixing among themselves is low something they don't even know the name of their class fellows. Engineering education is the process, which trains students towards problem identification and thinking, analysis and solution.

Prof. Ranjit Singh
Executive Secretary

ISTE/ Award-Best Student Chapters 2010

September 27, 2010

Dear Sir,

Sub. : ISTE Best Students Chapter Award 2010 - regarding.

I have pleasure to inform you that Jamia Millia Islamial, Faculty of Engineering and Technology, New Delhi has been identified as the Best Students Chapter of ISTE Delhi Section on the basis of activities carried out during the year 2010. The Award consists of a medallion and citation. I on behalf of President ISTE and myself extend our sincere Congratulations on the performance of the Students Chapter. The presentation of ISTE Award will be made during the Inaugural function of the 13th ISTE students National Convention to be held on 2-3, October 2010 at Jaipur Engineering College, Kukas, Jaipur (Rajasthan). You are cordially invited to come to Jaipur to receive the Awark.

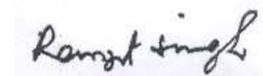
You are requested to register for the Convention and inform your travel plans to the Organising Secretary of the Convention at the earliest for the needful under intimation to this Office. I am enclosing herewith a copy of the Information Brochure of the Conventioni. ISTE shall bear your TA/DA expenses limited to AC-III Railway fare for the journey by the shortest route by mail/express trains.

Looking forward to the pleasure of meeting you during the Students Convention at Kukas, Jaipur (Rajasthan).

With best regards,

Encl. : As above

Your sincerely,



(Prof. Ranjit Singh)

To, Prof. A.Q. Ansari
(Faculty Advisor, ISTE Students Chapter)
Jamia Millia Islamia
Faculty of Engineering and Technolory
Jamia Nagar, New Delhi-1100 025



Seminar on Remote Sensing & GIS for Environmental Management



Hon'ble V. C. Inaugurating the CAD Laboratory of Civil Engineering Department



Football winner team with the former Head, Civil Engineering Department



Football winner team with the former Dean & faculty members



Captain of the Cricket Runner Team receiving trophy



Captain of the Football Runner Team receiving trophy



Secretary - Students Sports Organising Team receiving trophy



Captain of the Football Winner Team receiving trophy



Captain of the Cricket Winner Team receiving trophy



Bowler of the Cricket tournament receiving award

Lows and Highs

Things were not quite shaping up my way. An emotional person that I am, it was a reason bad enough for me to feel low. I had just missed my flight to Bangalore, where I was scheduled to appear for that final round of interview in my dream MNC. It was more regretful because I had successfully completed their three rounds of interviews already. I thought I had cracked their written test. I fared pretty well in the group discussion too. It was the personal interview that did create some hick ups. But I was relieved to know that I was short listed for their final round of interview at the company site. Their offer running into 7 figures per annum was almost double of my current pay. The other perks were also substantially better. For that package, they would definitely find someone who would be destined to end up my hope of getting a second chance at that company. Why are our Engineering colleges churning out so many graduates every year? Why do these wretched taxi drivers not keep their tanks filled up? Why do they have all the traffic lights red when you are in a hurry? What use was my degree in Computer Engineering, and that too from the best institute, if I couldn't get a chance at that MNC? Would I still be able to win my sweetheart over, after being able to date her for so long? Would I be able to live without her then? Why were all the beautiful girls so demanding? Did it ever make sense to sing "Jo Chaho Hojayey, Coca Cola Enjoy"? Wasn't life so harsh on me? These and many other random questions kept pouring in my mind. My dreams seemed shattered. I always used to wonder why people go to the extent of committing suicide, but that day I wasn't finding this feeling any alien. I switched my cell phone off, because I didn't want to take any call. I just wanted to die.

I was walking slowly, immersed in my own thoughts when I hit up something. That woke me up from my sleep walk. I had actually run into a dirty bag. In fact, the bad smell emanating from that bag didn't actually require hitting it for waking me up. Close to that bag was a member from the human tribe trying to catch up some sleep. The sun was shining right in his pale face. It can only be imagined how awesome it must have been to sleep on a pavement like that by the side of a drain with that intolerable bag under his head. That immediately sent me thinking if I am not better off. Won't I be better off looking at the have-nots than the haves?

This shock reminded me to switch my cell phone on again. It started ringing immediately. My parents must be worried about me. How much concerned for their children these parents are. As soon as I uttered "Hello", I was greeted in a foreign accent. Very soon, I was being interviewed on my cell phone by a big company from the Silicon Valley, while I was standing right beside that dirty drain. There was no way I would have taken this call if I were air borne for Bangalore then. A week later, I was at the airport again. I made sure that I was well in time this time. I had two passports in my hands with valid US visas in both of them. I also had my sweetheart by my side with our marriage certificate in her purse, just in case we need it somewhere.

M. M. Sufyan Beg
Department of Computer Engineering

THE INNER ME

Not sure of who I was, or who I wanted to be,
I have wandered here and there,
Searching for the inner me.

And with others, myself, I compared,
Running from myself for so many years,
Getting entangled in bondage,
And wrapped up in my fears.

Possessing a strong desire to be different,
I fought a battle every day.
I have realized, that I cannot to myself be true,
If I continue hiding the inner me,
While trying to be, just like you !!!

Jameel Ahamed
B.Tech.(E&C) 4th year

The Good Old Days

A computer was something on the TV,
From a science fiction of note,
A window was something you hated to clean,
And ram was the cousin of goat

An application was for employment,
A program was a TV show,
A bug was a creepy crawly,
A keyboard was a piano

Memory was something you lost with age,
Hard drive was driving fast for a while,
Compress was something you did to the trash,
Not Something you did to a file

A backup happened to journey's,
And a boot was a footwear,
A mouse pad was where the rodent lived,
'Log on', was adding wood to the fire

Cut you did with a pocket knife,
And paste you did with a glue,
A web was simply a spider's home,
And a virus was faster than flu,

I guess I'll stick to my pen and paper,
And the memory that's in my head,
I heard nobody has been killed in a computer crash,
But when it happens I'll wish they were dead.

Santosh Kumar
B.Tech. (Comp.) 4th year

Rendezvous At Youth Cafe

Raymond Chandler, renowned novelist and screen writer once said, "Society is not a fragrant world". But the youth of Jamia Millia Islamia might not agree with this. Don't go by my words, just visit the Youth Café once and I am sure you would agree with me. Not only that but you would also be compelled to write an article on that place and that is exactly what my conscience forced me to do.

YOUTH CAFÉ, also known as CASTRO CAFÉ, was named after FIDEL ALEJANDRO CASTRO RUZ, one of the primary leaders of the Cuban revolution, and the ex-prime minister of Cuba. I wonder how many guys sitting out there at the Youth Café know this.

On one not so fine winter afternoon, my friend Aman and I, frustrated by the boring lectures, decided to find refuge at the Youth Café. "I find that place real fun", said Aman, looking exhausted as if attending a lecture involves more physical activity and labour than climbing a mountain. Our destination was about 200m from the Engineering Faculty but we decided to take that strenuous walk because the café offers better food than the other canteens at Jamia and of course peace of mind.

The place looked like a palatial canteen from outside. The lawns outside the café were full of students mostly in groups. Some playing guitar and singing along, some indulged in group discussions or candid chats, some fighting over a bite of sandwich or a sip of fizz, and some engrossed in observing the others. We sat down at a convenient place from where we could notice everyone and everything going on around us. In fact, that is the best thing one can do out here to have some fun.

I noticed that most of the people were not at all interested in the folks they came with, but in some other person. A petite girl sitting right behind us kept telling her friend how cute he looked in the pink t-shirt he was wearing whereas he was busy staring at some other girl, sitting across the lawn from where we were sitting. I shared a sympathetic glance with Aman at the plight of that poor girl. Two girls sitting besides us were busy taking down notes from a book. God only knows how anybody can concentrate on books in such a place where there are more interesting rather weird things to behold. "Nerds!" we both said in unison.

The main sitting area, near the food counter, was more of a ramp with seating arrangement by its sides. We ordered shahi paneer and butter chicken with paranthas and fresh lime soda. A girl with an absurd sense of dressing was wearing high heeled leather boots and a bandanna over her head and was walking up and down the ramp God knows why. Her intended catwalk resulted in her tripping a few times but I guess she didn't mind that. I abstained myself from laughing but before I could stop Aman he was already in hysterics. I just hoped that we don't witness a wardrobe malfunction out there. Every one sitting there enjoyed the fashion show.

While coming back from the food counter, I saw a girl walking towards me, gesturing a hello with a bright smile on her face. I didn't recognize her but was sure that I had seen her somewhere. I

took my hand forth to shake hands with her but before I could gather my thoughts she went past me to a guy standing right behind me and shook hands with him. I stood spellbound at this embarrassing situation while Aman was laughing as if he would die if he was not stopped. I realized that a few others had noticed what had happened and as they joined Aman I barely managed a weak smile and absconded from that area.

We masticated the food for a while and then left that place pleased on our way back to the Faculty. During the lecture just after lunch, I kept thinking of the Café too eager to go back. The food, the ambience, people dressed as if they have come to college for everything but studies, the calming green grass, the soft music, the candid chats, stares from all the directions and of course the crowd. I had only fond memories of that place.

“YOUTH CAFÉ “

The name itself says everything!!!!

Saqib Rizvi
B.Tech. (E&C) 4th year

As the technical battle reaches Mars and Venus, Ali Rizvi and Maveria Usmani find out pros and cons of the latest grown-up toys.

Reclaiming Lost Territories

Since when did technology stop being the male bastion? Unleash your hunger for the crude and larger-than-life gizmos.

There was a time when 'tech' was solidly male. When no magazine could do without articles like “Top 5 Gadgets For Men” or “Gizmos Men Can't Do Without”. When we assembled alien devices, uploaded and downloaded from the back of our hands and rattled off buying latest cell phones. Tech was a boy thing. Was!

The rival camp(read girls) has moved beyond our imaginations. They buy their own gadgets (bewildered...visit the nearby store and see for yourself), they know the features inside out and they update to the next version of everything before we do. Ever wondered how they end up being online every time and upload those pics from your cam, you are still struggling to save properly. However it is time for a quest- a mission to find some truly macho gadgets and reclaim the lost territory.

ROCK YOUR CALLS: Cell Phones

Cell phone is such a personal thing you can't get away without some serious testosterone gadgetry. Samsung is out with Corby. It features awesome sound quality (DNSe) and an excellent web browser with support for flash and touch response, and yet you may count it among the cheapest touchscreens available. STATUAROY WARNING: Don't go for the yellow cover. Those having it please replace before it becomes an epidemic. It is also AVAILABLE with black cover. Tune in to Sony Walkman Series and listen to the finest audio technology but if you are talking stuff, none can beat the big machines. Try, Nokia 5800 XpressMusic and feel the delight of brandishing Carl Zeiss optics. Packed with geo-tagging it includes sensors ranging from proximity detection to accelerometer to handwriting recognition. To make an edge update before you are out of sync. Gone are the days of Infrared when you waited for a decade before the file transfer was over. Look for faster Bluetooth and upgrade to wi-fi's by the latest. If gadget guru's are to be believed, Wi-fi's will be the new rage once the XPERIA series is out in the market completely. And with HD cameras available settle for nothing less than 5MPi. Heavyweights like Blackberries and XPERIA are waiting to surf with. Internet with these enormous keypads can't get any better. Grab them, groove them but do make a safe distance lest you love your virility.

Recommended:Nokia 5800 XpressMusic, Samsung S3650 Corby, Sony Ericsson XPERIA X1 (available with 8Mpi camera and upto 3GB of free memory)

PACKING A PUNCH: Laptops

No, you don't need to go for the kinky 19 inch dinosaurs (often seen with an additional NUM keypad and labels like HP, yuck!!). What you need is a shift of resilience and not a shift of devices.

Just stick to your Dell or crude Compaq low-price-range(which must have lost speaker bass, camera, blame it on the drivers and their self diagnostic checkup by now). Still, resist the urge to switch over to those tablets/notebooks overwhelming the market or the glossy VIAO pianos that come with the only credit of fitting in the back of your denims. Remember, they are simplistic little screens filled with dumb icons that run crippled little applications(seriously, try playing God Of War on any of those, you can simultaneously count the pixels). Instead use the XPS devils and jazz them with modern operating systems like Windows 7 or ubuntu to flaunt inserting those virus infected USB's, that would have otherwise been the nightmare of any easy-to-use, automatic, shining software+ hardware patch-up (read rival camp devices).

Recommended: Studio Dell XPS 16, HP Mini 2010 i, Compaq Presario CQ60, Acer

DEFINE YOU PERSONA: Accessories

The heavier, the better. Armor your wrists with FastTrax heavy metal watches that come with broad leather straps. Even their street-side versions that may be available without the brand name, score way above the sleek TIMEX. Pair them with a microphone from Panasonic or Phillips(...as for Intex, they are just cheap). Stay away from those little plugs offered by Dell and Creative. They resemble the microphone of your cell phones. As for iPods, go for what suits your pocket best, but still avoid the feather-touch white boxes from Apple. Feather-touch is serious breach from the male domain. It's a big NO. I recommend that you go ahead and explore. Creative has an outer world battery (I am talking about a claim of 16 hour backup), that needs a serious test.

All in all, change for the good. Do mind the overuse of that slim and savvy device (ATM), but if you get an option choose savagely.

Ali Rizvi
B.Tech.(Comp.) 4th year

Get Smart!

A new millennia seeking women in unusual roles and upscale challenges. Technology is the need of the hour for modern women.

As women come face to face with their male counterparts, the urgent need to overcome the minus points assumes primary importance. And what needs more attention than the gadgets and gizmos that run the contemporary scene. Rising above toasters and remote controls, women are increasingly despising for those flossy devices that once reserved a safe place in the taboo zone. A step ahead, the females of GenNext are breaking all barriers to acquire the possession of the latest gadgets. Be it the designer folder sets from Samsung or sleek Asus Notebooks, girls have baptized gold with technology. To those from my tribe, who are still ignorant to this new found passion, I suggest a change before it's too late. Imagine the horror at that presentation where you arrive(otherwise prepared) crumbling under the load of your "Latitude XT ConvertibleDell" laptop. You open the lock before buzzing your machine into action. Then it makes some curios sounds (in the silent boardroom), before coming to life, accompanied with a whizzing of air to acknowledge everyone that you have a fan in your system. Where no connection (either USB or pin based or Ethernet based) is ever static you keep on pressing the wire to the port at irregular intervals. And like a nightmare come true, If you forgot about its short battery backup, a complete blackout (with no backup of saved settings) at the climax of your ppt will be the 'final nail in your coffin'. Now, imagine the same situation with a sleek and handy, (zero boot time) Acer notebook. It is designed to make the difference. As our femme celebrities go digital with those blackberries to tweet their mind on everything, there's no reason why we alienate ourselves from the charm of these wonder devices.

Still, choose your gadgets wisely. Instead of grabbing the latest 'pink candy', take your time and implore the machines. Contrast them with you image and see if they match your getup. To catch up with the guys make your move before they do. The apex awaits you.

PERSONAL AFFAIR: Mobile Phones

The only industry evolving for the good of women is, perhaps the mobile industry. Blame it on their sales but products aimed at attracting girls are flooding the market. As a trendsetter NOKIA 5300 whose sliding features combined with its red and white cover, made a perfect companion that was equally cool and funky. For serious patrons the stylish and all flossy Twinkle (from Macromedia) is out in the market. Packed with a very large QWERTY keypad it also offers GPRS connection and dual sim facility. The Swarovski gems embedded in the keypad can mask its 2Mpi camera and bad sound quality. To appeal in the ladies section it comes with a much needed mirror for last minute knick-knacks. As for technology go for the mobile phones offering browsers like Opera (at the very least) and QVGA screens. Philips will soon be out with an all girl series.

Recommended: Samsung SGH E900, Micromax Q55 Bling Twinkle, Motorola krzr K1 Pink

SLEEK AND SIMPLE: Laptops/Tablets

Gone are the days when laptops needed a tough leather bag. From the slim devices booming the streets grab a handy and light notebook. Dell is out with Inspiron and studio series. Experience the tranquility of using designer built Studio laptops that offer a unique design for every ambience or grab the equally flossy Inspiron devices that come at a reasonable low price. Think beyond, and go for Lenovo Ideapad series that offers unique applications to achieve a new summit of compatibility. But if you are wondering what the market buzz is all about check out the Acer Aspire series now. A huge blockbuster, it has left the users wondering how it achieves the amazing processing speed. So be it surfing or streaming or simply booting up, Aspire will do it in the flash of a second. As, for VIAO I am not a big fan. Experts speak that its sharp features will fade gradually with time. And once out of guarantee period it will cost you a fortune for troubleshooting.

Moral is that choose what suits you best. In all circumstances beware of the obnoxious black and give a thumbs-up for everything automatic. Do research for your gizmos. So the next time Mr. know-it-all appears with his techie jargon slam you gyan on his face to punch the balloon of his self assumed importance. A new millennia is calling, Get Smart!

Mavera Usmani
B.Tech.(Comp.) 4th year

Some Engineering Quotes by some great engineers

Engineering is the art of organizing and directing men and controlling the forces and materials of nature for the benefit of the human race. *- Henry G. Stott*

Engineers participate in the activities which make the resources of nature available in a form beneficial to man and provide systems which will perform optimally and economically. *- L. M. K. Boelter*

Engineering is not merely knowing and being knowledgeable, like a walking encyclopedia; engineering is not merely analysis; engineering is not merely the possession of the capacity to get elegant solutions to non-existent engineering problems; engineering is practicing the art of the organized forcing of technological change... Engineers operate at the interface between science and society... *- Dean Gordon Brown*

Engineering is a great profession. There is the satisfaction of watching a figment of the imagination emerge through the aid of science to a plan on paper. Then it moves to realisation in stone or metal or energy. Then it brings homes to men or women. Then it elevates the standard of living and adds to the comforts of life. This is the engineer's high privilege. *- Herbert Hoover*

Inventing is the mixing of brains and materials. The more brains you use, the less materials you need.

- Charles F. Kettering

What is commonly overlooked in using the computer is the fact that the central goal of design is still to obviate failure, and thus it is critical to identify exactly how a structure may fail. The computer cannot do this by itself. . .

- Henri Petroski

The great tragedy of science - the slaying of a beautiful hypothesis by an ugly fact.

- Thomas H. Huxley

The ideal engineer is a composite ... He is not a scientist, he is not a mathematician, he is not a sociologist or a writer; but he may use the knowledge and techniques of any or all of these disciplines in solving engineering problems.

- N. W. Dougherty

The most exciting phrase to hear in science, the one that heralds new discoveries, is not 'Eureka!' but 'That's funny...'

- Isaac Asimov

The engineer is the key figure in the material progress of the world. It is his engineering that makes a reality of the potential value of science by translating scientific knowledge into tools, resources, energy and labor to bring them into the service of man ... To make contributions of this kind the engineer requires the imagination to visualize the needs of society and to appreciate what is possible as well as the technological and broad social age understanding to bring his vision to reality.

- Sir Eric Ashby

In mathematics you don't understand things, you just get used to them.

- J. von Neumann

Engineering is an activity other than purely manual and physical work which brings about the utilization of the materials and laws of nature for the good of humanity.

- R. E. Hellmund

Engineering is the professional art of applying science to the optimum conversion of natural resources to the benefit of man.

- Ralph J. Smith

Engineering is the science of economy, of conserving the energy, kinetic and potential, provided and stored up by nature for the use of man. It is the business of engineering to utilize this energy to the best advantage, so that there may be the least possible waste.

- William A. Smith

I have had my results for a long time, but I do not yet know how I am to arrive at them.

- Karl Friedrich Gauss

The burden of the lecture is just to emphasize the fact that it is impossible to explain honestly the beauty of the laws of nature in a way that people can feel, without their having some deep understanding of mathematics. I am sorry, but this seems to be the case.

- Richard Feynman

Engineering is the practice of safe and economic application of the scientific laws governing the forces and materials of nature by means of organization, design and construction, for the general benefit of mankind.

- S. E. Lindsay

Engineering is the professional and systematic application of science to the efficient utilization of natural resources to produce wealth.

- T. J. Hoover and J. C. L. Fish

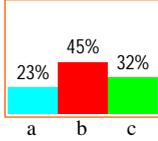
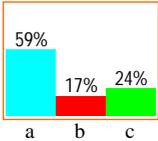
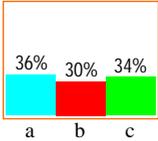
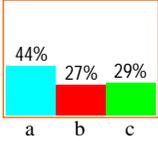
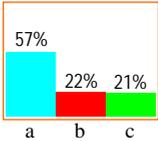
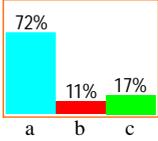
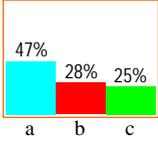
An expert is a man who has made all the mistakes which can be made in a very narrow field.

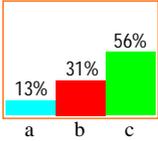
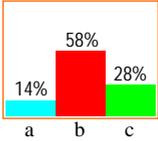
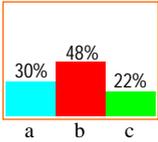
- Niels Bohr

Research is what I'm doing when I don't know what I'm doing.

- Wernher von Braun

Survey

1. Jamia will soon launch its 'online attendance database'. Your say:
 - a. Excellent. It will help to keep in sync.
 - b. I attend my classes anyway.
 - c. Will they count 'canteen attendance'!!!
2. With a war-torn Afghanistan and Iraq, do you believe in 'The change' promised by Barack Obama?
 - a. Situation is much more peaceful and humane. 'Three cheers' For Obama.
 - b. Another 'hollow promise' by an opportunist politician.
 - c. False Hope' has made the situation worse.
3. Facebooking' for you is:
 - a. Staircase to heaven.
 - b. Formality.
 - c. Nuisance.
4. I can't live without:
 - a. My multifunctional, 'throw-on-the-wall' facilitated cell phone.
 - b. Counter Strike
 - c. Maggi
5. With SENSEX struggling around 20000, jolted with a heavy cut in outsourced jobs, what are your expectations from the 'placement season' this year:
 - a. Market has fully recovered. A BOOM awaits this season.
 - b. Only the privileged ones will make their mark.
 - c. No hopes, again. I'll go for higher studies.
6. Favourite movie of the year:
 - a. 3 idiots
 - b. Wanted
 - c. Avatar
7. Your expectations with the Commonwealth Games:
 - a. Event of a lifetime. Sure to be a success and pride of our country.
 - b. Corruption was the last 'nail in the coffin' of a devastated Commonwealth Games.
 - c. Did they say about a 15 day holiday!!!!

8. Despite close edge competition from Germany and Argentina, one reason why Spain won the 'FIFA World Cup' this year:
 - a. Iniesta'
 - b. The pools/groups were designed to the ease of Spain.
 - c. Almighty 'Paul', the oracle octopus has predicted it.
9. With 'larger than life' banners telling about expulsion of raggers, 'Ragging' is abolished to level zero. Your take:
 - a. Finally, the fresher's can study without any nuisance.
 - b. An important link of interaction is lost.
 - c. Harassment', is saved at the cost of some 'memorable funny moments'.
10. 25 successful years of the Engineering Faculty of Jamia. Where do we stand now?
 - a. Undoubtedly among the top 10 engg. colleges of India.
 - b. Decent packages and constantly improving infrastructure proves that we are doing just fine.
 - c. The sidelining of top-notch MNC's and a shortage of faculty proves we have a 'long road to go'.

Green Technology - A Traditional Approach of Science & Art

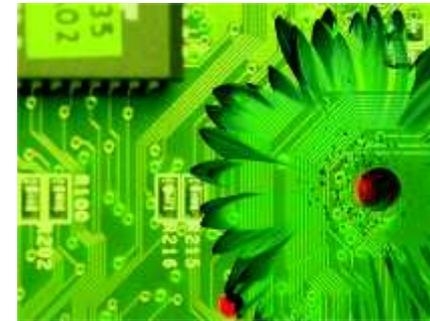
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Power is a critical infrastructure for development process and due to constant demand of the power over the supply and consequently environments and ecological hazards associated with the power generation, through fossils fuels, has resulted a worldwide concerned and increasing the importance for renewable sources. The resource of fossils fuels is very limited where as renewable sources are ample in nature from where the energy can be harnessed. It's a green energy, environmentally friendly and cheaper source of electric energy.

Nature is an amazing laboratory. It provides us techniques and ideas on how to live life in a sustainable manner. In each case, nature would provide the models; ceramics drawn from mother of pearl, solar cells copied from leaves computer signals like cells

.The field of "green technology" encompasses a continuously evolving group of methods and materials, from techniques for generating energy to non-toxic cleaning products. This includes the development of alternative fuels, new means of generating energy and energy efficiency.

In this regard there is a need to discuss the ideas used to traditional approaches linked with green techniques which are economically cheap and depend on the locally available natural resources and mimic nature of bionomics or "boimimicry" for specific purpose: How will we grow up our food? How will we store what we learn? How will we harness energy? Best management practice for ground water by using of bio-retendation, buffer, rain gardens, and idea of filter strips which removes sediments nutrients (such as nitrogen and phosphorus) and other pollutant from water. It also absorbs water that runs off roof tops and other impervious surfaces and spread runoff uniformly over a filtering surface of vegetation. Biogas fertilizer plant not only provides organic manure waste treatment but also would accrue to rural families in terms of reducing drudgery of woman involved in collecting fuel wood from long distance. It also minimizes health hazards during cooking as methane is used for cooking and electric generation. Apart from this, the concept of mud house can prove innovative. Although it is not a new idea, but now-a-days most of the mud houses have been replaced by concrete-brick houses in rural areas. Earth heat exchanger unit which consists of 1 or 2 h.p. motor coupled with small blower, and PVC pipe, is thermally comfortable and provides optimum human comfort conditions. Small green houses for plants (potato, brinjal etc), dry food preservation, aquaculture protection in cooled places (temperature below 2^oc),



the bamboo windmill to extract ground water for irrigation are the other innovative concepts , the best part being the windmill can move in low-speed wind too.

The definition of "green technology "may differ from nation to nation but any development done should be environment friendly and the focus should be on the self-sustainability of the project, awareness with problem and basic research to generate a pipeline of innovation and talent.

I am sure that this article is proved to be informative and useful. We invite your valuable suggestions and contributions for new generation techniques.

"Its nice to be important, but more important to be nice"

Kaushalendra Kr. Dubey
M-Tech (Thermal Engg)
Alumnii-2010 batch Mech. Engg. Dept

Biomimicry - Role Of Nature In Technology

We are living in the era of "science and technology". We know it and agree to it as well. But have we ever wondered from where the concept of science, inventions does, technologies emerged. From where does all these innovative ideas came and still flourishing in mind of some great talents. To a large extent answer to the question prevails around us. And around us it is *Nature*. Since million of years Nature has acted as a *model, mentor, measure* for the emergence of *anthrop*, thus acting as the biggest *philanthropist*.

BIOMIMICRY, as the name suggests is, "*mimic biology*". The term comes from "bios" meaning life and "mimesis" meaning to imitate. Its art of imitating nature for developing sustainable human technologies. Biomimicry is an emerging discipline that studies nature's best ideas and then uses these designs and processes to solve human problems. Biomimicry is bio-inspiration which examines nature to emulate to take inspiration from and apply the same for advancement of human race.

One of the finest and earliest examples of biomimicry was invention of *Write Brothers' "Aero plane"*. Their invention was inspired by observing flight of pigeons.

Biomimicry is the exploration of principles observed in nature that we can learn from and apply within design. It is:

“A conscious strategy by designers to observe and learn Principles of design from nature.” – *Janine Benyus*

Examples include;



Creating self cleaning surfaces inspired by the lotus leaf. Paints and surface treatments that self clean in the rain. The tiny texture on the surface allows the water to bead and drag away any dirt.

Structured color inspired by the “Morpho Butterfly”. These are highly iridescent brightly colored surfaces, that don't contain any toxic inks. The color we see is created by light bouncing on structured scales on the butterfly wing. There are no pigments.



And buildings like the East gate building in Zimbabwe that is inspired by termites. It passively heats and cools, maintaining a constant temperature in Zimbabwe without expensive mechanical systems.



The driving force within any ecosystem is not to remain the same, but to grow, just as we explore in economics, but the principles within this growth are very different.

A mature ecosystem is one full of diversity, complexity and efficiency. All nutrients flow through complex cycles of use, as waste from one organism becomes a source of food for the next in many different layers.

So, if you are curious about biomimicry. Begin by asking how nature might approach your challenges. Explore the big concepts within your own situation as starting points;

- What is the context of our product/process? Could that inform our thinking?
- How could we design a more flexible system, that adapts and evolves?
- Is there a way to increase complexity and diversity?
- What could I do to make my waste streams valuable to someone else?

And then if you need more resources to help, just have a look around you, nature is all and ever ready to provide you answers of all your queries.

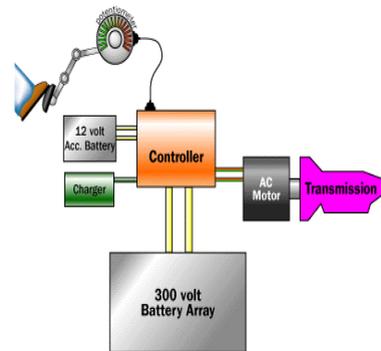
Nitika Goel
B.Tech.(Comp.) 4th year

GREEN ENGINES

Industrial development have enhanced the standard of living is absolutely true, but in the process we have lost our natural resources so question stand before us is whether we should “continue” or “die”.

Coal, petrol, natural gas, water & nuclear energy are the five main energy sources being widely used by human being.

Statistics show that daily consumption of petroleum all over the world today is 40 million barrels, of which about 50% is account for automobile use. Furthermore as these fuels are burnt poisonous gases like CO, HC and NOx are emitted into atmosphere resulting pollution. Scientists believe that CO₂ is responsible for about half of the total green house effect, hence automobile deemed to be most atmospheric contaminator. It is estimated that petrol reserve will last for next 38 years, hence it become global concern to open eye and take drastic action.

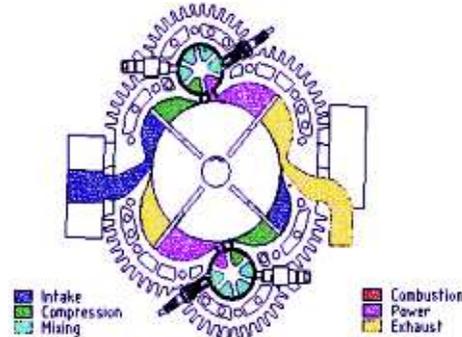


Some of the engines have been made to serve the same purpose i.e. they are almost pollution free, highly efficient and easily manufactured. The examples of such engines are green engine, electric car, hybrid engine, hydrogen fuel cell etc.

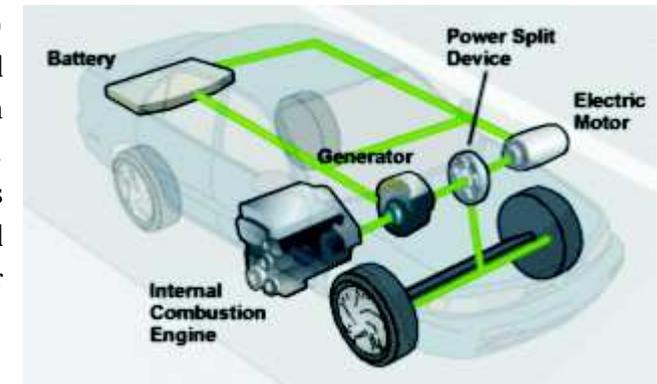
GREEN ENGINE is a six phase internal combustion engine with much higher expansion ratio. It gives satisfactory air-fuel mixing, complete burning, high combustion efficiency. Also

it is near zero emission, light & small and has capability of burning various fuels.

ELECTRIC CAR is an alternative fuel automobile that uses electric motors and motor controllers for propulsion. It can use AC or DC motors. If the motor is DC, then it may run on anything from 96 to 192 volts. If it is an AC, then it probably is a three phase AC motor running at 240 volts AC with 300volts battery pack. AC motors and controllers often have a regen feature. During braking, the motor turns into a generator and delivers power back to the batteries. Right now the weak link in any electric car is the batteries.



A HYBRID ELECTRIC VEHICLE (HEV) combines a conventional internal combustion engine (ICE) propulsion system with an electric propulsion system. The presence of the electric power train is intended to achieve either better fuel economy than a conventional vehicle or better performance.



Atif Usmani
B.Tech.(Elec.) 4th year

Saare Jahaan se Accha

“Abbas, woh Masjid hai” Abbas's ammi pointed out the window as bus 507 started off from Okhla. The hyperactive two year-old was straining against his mom's hold and wanted to grab my spectacles! (I was on the adjacent seat, returning after yet another dismal semester exam a year ago, and was glad his mom was trying to distract him!)

“...aur yeh Abbas, isse Mandir kehte hain” she pointed towards the Hanuman temple as the bus moved past Bharat Nagar. Sitting in his mom's lap, Abbas was already staring wide-eyed outside the window when the bus reached Taimur Nagar. “...aur yeh Gurudwara hai” said the mother in that loving tone, characteristic of every mother as she gives her child those initial bits of knowledge about the world. “Gulludwala!”, little Abbas repeated in an ecstatic crackle.

And that moment, in a crowded Delhi bus with a loving mother & her innocent son, summed up what being an Indian is all about.

India... the multi-splendor wonderland... the crown-jewel of God's creation... the land of infinite possibilities!

The nation of... 1.15 billion diversities...
of...

21 languages & a zillion dialects,
The world's greatest problems & the million opportunities to solve them,
Nobel/Booker prizes & thumb impressions,
Hunger & High teas,
Yoga & traffic jams,
Kamasutra & Moral policing,
Slum dogs & Millionaires,
Gold medals & Red-tapism,
Bullock carts & Corporate jets,
Joint families & Single moms,
Chaos & Spiritual contentment.

A management miracle... where we make the impossible, possible every single moment. It could be the struggle in unimaginably crowded buses or the thousands competing for a few seats at every stage of life or the 10 hours of power-cuts in summers or the choked drains near our homes or the bad roads causing countless bumpy rides. But, our undying spirits triumph over unimaginable odds every single day.

What is being an Indian all about? Is it the feeling you get listening to the national anthem playing with the twenty-one gun salute in the background or the euphoria experienced when A.R. Rahman wins the Oscars?

The world applauds as India- the 2nd fastest growing economy in the world- the IT, Industrial & agricultural behemoth- a nuclear superpower- gallops beyond it's "vibrant cultural kaleidoscope" image. While India Inc. spreads wings for a global "take-over", the Diaspora wins accolades for their prodigal genius, the world over!

At the heart of all our stunning achievements is our cultural - religious, ethnic, linguistic & political- diversity. It's real hard for the world to even imagine the existence of a temple, a mosque, a church, a gurudwara, a synagogue in the same neighborhood. But, for us, unlike certain western countries, secularism & tolerance aren't some glorious golden words to be proud of ... it's a way of life. The world, sometimes, doubts our secular foundations after a rare communal riot in a small city of our huge country or after the vandalism of a church in some obscure village.

But, the truth is that with the diversity like ours, isolated events like these are in fact inconsequential, ignorable aberrations.

We are a great nation, people sharing a great destiny, though unfortunately, we often fail to realize our own greatness as individuals & as a nation.

Yes, there are imperfections & glitches at every step that we take to realize 1.15 billion hopes, dreams & aspirations of a perfect future. There is corruption. There is poverty. Also, relentless efforts will be made to disrupt our unique thread of peaceful coexistence. But then, we have the sharpest minds and the youth with infinite capability and boundless zeal to achieve whatever they set their wills to.

India is counting on us to make a difference. And we will !

Samir Sharma
Alumni-2010 batch (Mechanical)

Regionalism Vs Religionism

Well, first of all, if you expect to garner out a relationship between the two or in the farthest of possibilities, a religious or regional bashing, then you, I must say, will be one extremely disenchanted human being. I am not writing this article to show my writing skills. My intention to pen down this article is to expose your thinking to a new level ofWell, that's for you to discover.

So, let's just forget about the "Header" of this article and try to analyze some of the important developments that took course in setting up of a strong base in the history of Human Civilization. Way back in 5000 BC, when the so called "Wanderers" were suddenly hit by an idea of Cultivation and permanent residency near the banks of many rivers around the world, we didn't know the consequences which we were being driven into. We do not know anything for sure but at almost the same time (3000 BC) all the 4 great Civilizations of the Ancient Past i.e. Egyptians, Assyrians, Babylonians and the Hitites emerged around the rivers in what we can easily discern in the Global Map of today as the North Africa and West Asia/Eastern Europe region.

The interesting fact to memo down is, all these four civilizations emerged at around the same time and all the four civilizations existed within a 2000 Km Radius, the centre being Kadesh (Under Egypt at that time and one of the biggest Exchange Market/Trading area of the Ancient Word). So why did they emerge and that too so close to each other? The reason is confusing but very predictable yet satisfying, the concept of Regionalism. Regionalism brought together the people of same interests, probably the same mind-set and having a similar way of communication. At that time, people belonging to different regions/religions lived in harmony (except the Hittites, the rulers that followed Ramses).

Regionalism during that time was like glue which held people together. So, how and why did Religion came into existence then? Leaving Hinduism aside, whose ab initio is still untraceable, all the other major religions groomed and developed under specific regions without any specific reason for their emergence. But one thing we know for sure is it was once again a division and classification of people of the same type. Religion further strengthened and preserved the pedigree of the particular land area. Smelling Nationalism now? No I am in no such hurry!!

Now, after 5000 Years, what is the current status of Regionalism and Religionism? One thing we must say is, at least Religionism, if not Regionalism, has gone past borders and Regionalism has bifurcated into two viz, Intra and Inter Regionalism. Regionalism has no longer served its purpose since International Boundaries were drawn. Moreover, Intra-Regionalism faded away along with Imperialism. However, has Religionism also served the purpose of holding people together under the absence of Intra-Regionalism? My answer would be, NO.

This is because Intra-Regionalism never cared about the Religion after all and Religionism was somehow dragged in a tug of war for increasing its followers. Every other religion was involved in collecting more and more people under it by any means. Religionism did no longer care

about the unity of people; it always targeted "breaking" the unity of other groups of people.

I don't know where Regionalism and Religionism are leading us to, because both of them have failed in their basic purpose of unifying people. God was just created so that people must think and fear him before doing any wrong. Same way, Regionalism has no meaning until we learn to respect each other

These 2 were the key components of Nationalism at a point of time, now with the bases crumbling, how could Nationalism withstand?

Nationalism as I see is an addition of Region and Religion which along with political interests have gone past every limit of Human wrath. Only people of same region or religion possess Harmony among themselves. I know the flaw in the premise is loud and clear but, ever thought what happens when a group lives in Harmony just to drive off the fear from the other groups? Why do you think The Egyptians are the most famous and the most explored among the 4 Great civilizations? Simply because they have a great past and a great past is evident of social and religious harmony.

I didn't write this to provide any diplomatic solution, but rather to make people think about our future, as the very base of Regionalism and Religionism stumbling, what could be done, or should have been done by now to restore the glory what our ancestors left for us to preserve.

Soumya Sharma
Alumni-2010 batch (MECH)

Won't you be my digital neighbour ??

Last night as I was checking updates on my Facebook profile as usual, it dawned on me that wasn't Facebook bringing out the worst in many of us. The hard-hitting question - Is Facebook and Twitter making us narcissistic crossed my mind. And almost immediately I knew the answer; "Absolutely but Twitter is worse." Why do I post things that often nobody cares about? Why should people know what I am doing all day long? I really do not see how anyone really cares when ABC goes to the bathroom or eats dinner. As for Facebook, I don't know whether to be amused or horrified that they have constant updates on who loves you and how popular you are. I suppose they are trying to get at what is the most basic human need but what kind of popularity is this that we see it in updates on a computer generated program.

Many social networking sites like Facebook, Twitter, and MySpace have exploded in popularity over the last few years. Today, it seems hard to believe that these sites didn't even exist in 2003. The avenues for entertainment are greater than they ever have been before, and I personally do not understand how anyone could ever be bored! Perhaps our inner self-promoters and overshers would have found another way to self-promote and overshare, but these social media platforms sure have made it easy for everyone to get up-to-the-minute updates on how we're feeling and what we're doing — whether they like it or not!



A new taxonomy of friendship seems to have been defined in the virtual world. There is a Spanish proverb that warns, "Life without a friend is death without a witness." In the world of online social networking, the warning might be simpler: "Life without hundreds of online 'friends' is virtual death."

Friendship on these sites focuses a great deal on collecting, managing, and ranking the people you know. Everything about MySpace, for example, is designed to encourage users to gather as many friends as possible, as though friendship were philately. This promotes a form of frantic friend procurement. As one young Facebook user with 800 friends told The New Yorker, "I always find the competitive spirit in me wanting to up the number." Another one boasted to the Christian Science Monitor that since establishing a Facebook profile, he had collected more than 700 friends. There are even services like FriendFlood.com that act as social networking pimps: for a fee, they will post messages on your page from an attractive person posing as your "friend" or provide you with say 200 or so "friends".

Although I love my Twitter and Facebook, I personally prefer the good old fashioned kind of friendship which often comes with a hug attached from a real live person. Aren't a good many of us in this narcissistic party together? To me it seems like we are all encouraging each other to just update as often as we want with the most trivial information. For me, there is that pull to see how people respond to your witty one liners, or even your boring thoughts on everything from your neighbor to what you had for dinner. I enjoy sharing a few photos regularly with friends. I also enjoy keeping up with people I do not regularly see. I have connected with folks I haven't seen since I was a pre-teen. I have also enjoyed changing my profile photo to show the various things I've done, places I've been and people I've met. It all comes back to feeling I am important and wanting to share myself with others. This brings me back to my original topic of narcissism. What is healthy sharing and what is obsession with oneself? For me, it has to do with how balanced my real time life is. That's where the rubber hits the road. How do I live my daily life? Am I spending too much time on the computer, probably as it is one of my favorite past times but I am not yet too concerned. I do think I will make an effort to cut back on my time there though. I have too many good books waiting to be read....and as I write this my cellphone rings to alert me about my friend's status update. ;)

Aparajita Mehrotra
B.Tech. (E&C) 4th Year

" PHYSICAL APPEARANCE "

Appropriate Yardstick for judging a Person..????

Remember the night before our first day at college, weren't we so tensed about our clothes, shoes, our attire and how would we look, would I be able to impress everyone..?? This very process made me to ask my friends that why is it we are so keen about our appearance. Why don't we ask ourselves that what I am going to do in college than what I am going to wear??

There is a lot of emphasis laid on grooming one's persona and maintaining a dapper appearance. A lot of effort goes into acquiring the right wardrobe, the correct diction, a well groomed physical appearance & what not...!!!!

There are though many people who feel that substance is more important than form and that people who judge people by their outward looks are shallow and are not capable of fathoming the true measure of worth.

It is said "all that glitters is not gold" but as time is changing and so trends, a view has aroused against saying that "it is the gold that shine" so physical appearance does have an effect.

So I conducted a survey to know what today's student think of this.

Mayank Sharma (B. Tech Mech 8th sem) - " I think that judging any individual simply by the outer appearance is too shallow an approach. I abide the saying that book is not judged by its cover. Take simplest example of monks. Their living is austere completely devoid of any frills or guiles. Yet in their simplicity they aim for highest and noblest purpose. Every person has something special innate to them or achieved through hard work and may not be evident on the face of it."

Irshad Akram (B. Tech E&C 6th sem) - " well I do feel that one cannot discount what the appearance say. A well turned out person in every aspect is reflection of a well cultivated mind. A polished exterior must be respected because it has been acquired by lot of hard work and effort. A person whom makes an impressive public appearance is a result of hard work by the way of discipline of mind, attention to detail of dressing etc. appearance can't be ignored and I feel they speak volumes about individual."

Parvez Rafi (B. Tech E&C 6th sem) - " I feel that appearances are very basic and misleading parameter of looking at individuals. There could be people who are talented but are too shy to show. This doesn't lower their worth in any manner. It is the scientist who has traditionally held a very unglamorous image, who defines the ease and extent of our lives. I think it is the value addition that a person makes to the society they yardstick for judging."

Syed Nabeel Rais (B. Tech E&C 6th sem) - " I think if there is a true substance in a person then there will be qualities perceived that can't be hidden. Let us not discount the fact that it is an integral part of human psyche to lean towards familiar. Lacking any information about an unknown person, appearance allows the human mind to sort and categorize based on previous experience. So I think physical appearance is somewhat a deciding factor."

Tauseef Siddiqui
B. Tech. (E&C) 4th year

An Academy of Art: Reflections from year 2009-10

“Yahin se shaukh ki berabtiyon ko rabt mila”,(It is here that torn-off love found the cohesive chords). – Jamia Tarana

Jamia has a long and colorful history of art and traditions. Decades of tarnish, carved it into a blooming fountain of artists, musicians, theatrics and their likes. This year was no different for the patrons and their muse. Owing to its nature, Jamia gave a head start to music on its annual day: 'Talimi Mela'. A melodious performance by renowned singer, 'Anita Singhvi' mesmerized the crowd with its 'Sufi Charm'. Every listener was found tapping to the beats of “Ali Ali...”, for many days to come. Renowned social activist Swami Agnivesh visited the function as chief guest. Appreciating the efforts of the students he praised the institution whole heartedly. Rock bands that played in traditional tunes fused the atmosphere with a unique collision of classical and heavy metal tunes. A unique show (termed as 'Tamsili Mushaira'), by teachers of Jamia fraternity caught many watchers off-guard, especially those with a weak 'Urdu' vocabulary. Poignant verses from Bashir Badr and ballads of Majid Deobandi, made many newbie's appreciate their good luck of watching all the top-notch 'shayars' in one location. However, the euphoria was short-lived as they soon realized that the literal meaning of 'Tamsili' was to 'copy', and the men on-stage were actually “copying” (acting and behaving like) the original artists. *Pity to those still under illusion.*

Theatrics like Safdar Hashmi and Naseeruddin Shah have always found Utopia in the stage of Jamia. Following their footsteps, the great British Indian actor, Tom Alter visited Jamia with his internationally renowned play 'Mirza Ghalib'. As the lead protagonist Tom Alter explored the woes and dilemma faced by the legendary poet. Boosted with the energy at campus students of Jamia made an outstanding performance at the interuniversity events. At the 'North Zone Cultural Youth Festival' at Kurukshetra, Haryana artists from Jamia participated in over a dozen events ranging from 'Light vocal Indian Solo' to mime. Making their mark, the students bagged two first prizes in the categories of 'on the spot painting' and 'on the spot photography'. The winners were given a chance to participate in the prestigious 'National Youth Festival' at Rohtak.

At home, the convocation ceremony with Mr. Omar Abdullah as the chief guest, witnessed the heart rending performance of the Greek Tragedy 'King Oedipus'. Directed by Mr. Shakeel Ahmad Khan, Faiz (as King Oedipus himself), Kashif (Tyresius) and Stephie (as the Queen), left the audience spell bound. In a peculiar event the students of Jamia cycled their way through different parts of the country. The enthusiastic boys and girls visited many towns and villages to spread the message of peace.

As the academic year came to closing the students dived in their books for another mind boggling exam. The canvas for next year's activities is ready. It awaits some glowing colors.

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