DTU TIMES

SPECIAL EDITION
Passing out batch of 2013

From the Desk of The Vice Chancellor

As the academic session 2012-13 draws to a close and that the preparations for admissions to the forthcoming academic session 2013-14 rolls out, it is time to take a countdown of major events, achievements and rewards. The year 2012-13 began with online admissions to 15 UG programs; DTU emerged as a highly preferred choice for the high performers in AIEEE, GATE and CAT.

On the placement front, DTU has emerged as a highly attractive choice of many great MNCs, reputed industries, global consultancy companies, IT majors and Indian and foreign R&D organisations and PSUs for campus placements. It is also highly satisfying that the DTU faculty has received sponsored R&D funding to the tune of Rs. 12.5 crores, a new high and has bagged consultancy assignments in great numbers. The recognition of DTU innovation team at AUVSI at Maryland, DTU emerging in Top 03 in the world competitions for its Unmanned Aircraft System, flagging off of the DTU First Passenger Solar Car of India by the Hon'ble President of India from Rashtrapati Bhavan in September 2012, unveiling of the DTU-Lockheed Martin UAS-AarushX1 by the Director General of DRDO in November, 2012, Nobel Lecture at DTU by Dr. Roger Kornberg, Nobel Laureate 2006 for Genetic Transcription in December 2012, Seminar by Harvard Medical School Prof. V. Renugopalakrishnan in March 2012 on Carbon Nano Tube, the Global Alumni Conclave in January 2013, First Convocation of DTU in January 2013 which was presided over by Hon'ble Chancellor Shri Tejendra Khanna Ji, Hon'ble Lt. Governor of Delhi and graced by Dr. A.K. Walia, Hon'ble Minister of Higher and Technical Education, the Convocation Address by Indian's Renowned Scientist Prof. G.K. Mehta and the visit to DTU by the President of Cleveland State University, Dr. Ron Berkman alongwith Dr. Monte Ahuja, former Chairman, CSU and our distinguished alumni Shri Raj Soin, in March 2012 are some of the major highlights of academic events at DTU.

On the industry-academia interface front the DTU has signed several MoUs for joint research and development, consultancy, educational and training programs were signed with reputed industrial names like with DMRC (Delhi), Lockheed Martin (USA), Samsung Electronics (India), National University of Singapore, Nanyang Technological University, Tokyo Institute of Technology, Harare Institute of Technology and Indian Institute of Petroleum among others.

The year also marked recognition of DTU by UGC under 12(B) of UGC Act and approval of AICTE of UG and PG programs of the University. The University has also submitted its application for funding to UGC under Innovation University funding for Innovative Education and Research programs.

In a short span of 3½ years, DTU has emerged as a major brand for quality education, research and innovations and has earned high reputation and recognition worldwide, the dream of the founding fathers of DTU has thus come true in such a short span. We, therefore, have a major responsibility to continue to forge ahead with our sustained focus on world quality and high industry relevance.

I am sure the forthcoming academic session shall surpass the landmark achievements of the current academic year. I extend my warm greetings and felicitations to the talented student community and inspired faculty for making DTU proud by their distinguished contributions.

Prof. P.B. Sharma, Vice Chancellor

Online Admissions for 2013-14 to begin

The Admissions for 2013-14 for B.Tech, M.Tech and Ph.D programs are all set to be carried out. Like last year, online admissions will be carried out for the 15 UG programs of the University **on the basis of merit ranks of Joint Entrance Examination, JEE (Main), 2013**. This year the Board of Management has also decided to create one seat over and above the sanctioned intake in every undergraduate engineering programmes, for admission to the Central/State Board topper to provide high opportunities of topper of entral/State Board to study in our university. The Board of Management has decided to double the number of Ph.D fellowships at DTU from 50 to 100 keeping in view the requirement of Ph.Ds at national level.

The online system shall facilitate the candidates to first register for admission and then submit their choices of the preferred branches online. The system will be fully secured and the candidates would be able to obtain their admission status from anywhere using the internet facility. The candidates who have been declared eligible for central counseling by the CBSE and have secured 60% or more marks in the aggregate of Physics, Chemistry and Mathematics shall be eligible for admission.

85% of total seats will be available for the candidates from Delhi Region and remaining 15% seats will be for the candidates from outside Delhi Region. Other than reservation for SC, ST, OBC, persons with disabilities, children of war widows/personnel of armed/paramilitary forces killed/disabled and Kashmiri Migrants. One seat over and above normal intake in each branch is earmarked reserved for Single Girl Child from Delhi Region. For B.Tech. M.Tech and Ph.D. admissions, DTU admission website www.dtuadmissions.nic.in will be operational from April 8, 2013. The admission process will begin soon after the declaration of JEE(Main) 2013 results.

For the 22 M.Tech (Post Graduate) programs the admissions will be on the basis of a combined consideration of valid GATE score (80%) and performance in the interview (20%) before the Post Graduate Selection Board of the Department concerned. Delhi Technological University (DTU), formerly Delhi College of Engineering, is all set to greet the new academic session 2013-14 with new programmes in M.Tech in Biomedical, M.Tech in Industrial Bio Technology and M.Tech in. Nuclear Science and Engineering, Computational Design and Renewable Energy Technology. **The admission process shall be rolled out from 24th April and all admissions will be completed by 31st July, 2013**. The academic session shall begun from 1st August, 2013 as per the existing practice.

2   RISING STARS

DTU Students selected in
World's Best Universities & Excelling
in Placements

Students of our university have been selected for prestigious academic programs in **top international universities around the world including several admission offers by top ten and Ivy League universities in the US and UK.** The top ten universities offering admissions to DTU students include **Stanford University, USA, Carnegie Mellon University, USA, Cornell University, USA, University of Michigan and Duke University, USA.** These universities use Graduate Record Examinations (GRE) and Graduate Management Admission Test (GMAT) as a criterion for admission into the masters programs.

Arushi Arora final year student of Engineering Physics has been selected for MS program of **Stanford University and Ph.D program in University of Michigan, USA; Aditya Ganjoo** final year student of Electrical Engineering has been selected for MS program of **Carnegie Mellon University**, USA; **Jayant Chaudhary** final year student of Electronics & Electrical Engineering has been selected for MS program of **Carnegie Mellon University, USA; Shreya Jain** final year student of Electronics & Electrical Engineering has been selected for MS program of **Carnegie Mellon University; Nishant Aggarwal** final year student of Engineering Physics has been selected for MS program of **Carnegie Mellon University, USA; Akshit Peer** Final year student of Software Engineering has been selected for MS program of **University of Michigan, Ashna Sharma** final year student of Environment Engineering has been selected for MS program of **Cornell University, USA; Shyna Khurana** final year student of Electronics & Communication Engineering has been selected for MS program of **Duke University, USA; Parth Desai,** final year student of Electronics & Communication Engineering has been selected for MS program of **Georgia Tech. University, USA; Gautam Prabhakar**, final year student of Electronics & Communication Engineering has been selected for Ph.D program of **Boston University, USA; Neha Purwaha** final year student of Engineering Physics has been selected for MS program of **Kings College London, UK; Iaswaran** final year student of Biotechnology has been selected for MS program of **Carnegie Mellon University, USA** and **Madhurima,** final year student of Biotechnology has been selected for MS program of **Duke University, USA.**

Arushi Arora   **Shobhit Gupta**   **Akshit Peer**   **Aditya Ganjoo**   **Jayant Chowdhary**

"To get accepted to Stanford University, University of California and University of Michigan is a dream come true for me. I owe a large part of this success to all my teachers, my branch, Engineering Physics, whose updated course curriculum is at par with what is being taught at Universities abroad and blessings of my family and friends. To prospective students, I would say that all elements of the application process including College Grades, GRE, TOEFL, SOP and Recommendations are important." informs Arushi Arora, B.Tech 4th Year, Engineering Physics.

"I am very delighted to receive admission call from Georgia Institute of Technology, University of Michigan, University of Southern California and Pennsylvania State University for MS in Structural Engineering and I am looking forward to joining one of them this fall session. They have always pushed me for the better and supported me eversince for pursuing my dream. I owe a lot of credits to my teachers Dr. AK Srivastava, Dr. Ashutosh Trivedi and Mr. GP Awadhiya for guiding me and recommending me for the program. They made it a great deal." informs Shobhit Gupta, B. Tech, 4th Year, Civil Enginering.

"I felt extremely ecstatic when I received admit offers for PhD program from Iowa State University and for MS program from the University of Michigan, Columbia University and the University of Minnesota. I chiefly owe my success to the Almighty, my parents, my teachers and my friends at the DTU. Especially, I would like to thank my research advisors Dr. Ajeet Kumar, Dr. Vipul Rastogi and Dr. Ruchika Malhotra as well as my friend Gautam Prabhakar for always supporting me in every venture." informs Akshit Peer, B.Tech. 4th Year, Software Engineering.

I'm thrilled to have received admits to prestigious universities such as CMU and Texas AnM. I owe my success to my parents who supported me throughout and to my college, where I honed my skills and developed my interest. It is only after a little encouragement from my parents and some introspection that I realized my true potential. Special thanks to my hostel friends for always lightening up my mood when everything seemed dull." informs Aditya Ganjoo, B.Tech., 4th Year, Electrical Engineering.

"I am pleased to have received admits from Carnegie Mellon University, the University of Texas at Dallas and Arizona State University. I owe my gratitude to my parents who are as thrilled as I am. Being from the first batch of EEE at DTU, I would like to thank my teachers and Prof. Jeebananda Panda, Prof. Neeta Pandey and Prof. Kunwar Singh in particular. I also like to thank all my friends who believed in me and motivated me to pursue my dreams" informs Jayant Chowdhary, B.Tech., 4th Year, Electrical and Electronics Engineering.

"Delhi Technological University has a strong focus on its educational and research programs. Our educational strategy provides for the troika of education, research and innovations right from Under Graduate education onwards. This way we equip our students with the wings of knowledge and power of innovation so much needed for excelling in the international arena", informs **Prof. P.B. Sharma,** Honorable Vice Chancellor.

The Campus Placements for the academic session 2012-13 have also been impressive. The companies which have visited our campus includes Facebook, Texas Instruments Microsoft, Goldman Sachs, Google, Oracle, Paypal, RBS, Qualcomm, DE Shaw, smartcube, Deloitte, Cosmic Circuits, Futures First, Snapdeal.com, Maruti, Samsung, Cisco, Brahmos Aerospace, ZS Associates, Directi, Tata Motors, Indian Navy, C-Dot, TCS, Caterpillar, Jindals Group, Mahindra, Honda, Bechtel. The highest pay package received so far is **60 lac per annum**. It may be mentioned that in this academic session 2012-13, students of our university had received **852** job offers from **145** reputed companies.

Last year 754 job offers were received from **176** companies. This year with the impressive campus placements the University shall cross its last year's milestone and shall achieve the target of over **1,000** job offers for its UG and PG Graduating Batch.

MoU signed with DMRC

The Delhi Metro Rail Corporation (DMRC) and the Delhi Technological University (DTU) signed a Memorandum of Understanding (MoU) on 19th March 2013 with the purpose of jointly taking up projects in the fields of design development, research, indigenization of technology etc.

The MoU was signed at Metro Bhawan by DMRC's Director (Electrical), **Sh. Satish Kumar** and **Prof. P. B. Sharma,** Honorable Vice Chancellor in the presence of DMRC's Managing Director, **Sh. Mangu Singh** and a host of other dignitaries.

"Initially the MoU has been signed with Electrical, Electronics and Communication, Computer Engineering departments of our university". However, the ambit of the understanding may be expanded further to other departments in the years to come.

As per the MoU, DMRC may request our university to undertake consultancy projects related to design, analysis, development, forecasting, investigation, system integration, embedded systems and other software/ hardware based solutions.

Calling this collaboration a "partnership for excellence", **Prof. P.B Sharma**, Honorable Vice Chancellor said, *"This is a momentous occasion for our university. We are moving from Information Society to Knowledge Society. If India has to forge ahead, we have to create knowledge hubs for partnership between academics and government organisation, which can unleash the power of innovations. This MoU will aid us in bridging the gap between graduating engineering and professional engineers as well as reduce the gap between lab level research and the research required by the government industry in developing new technologies. The missing gaps in expertise at both the partners may be filled through this collaboration and it will be particular beneficial for the UG and PG students of DTU, who will get to earn while they learn. This MoU is a stepping stone towards a long-term partnership between two premier organizations."*

The two organizations also plan to take up joint research involving indigenization of technology, devising cost effective solutions for operations, planning and design of power networks, storage and standby supplies, voltage regulation, automation etc.

In the future, DMRC may also institute fellowships for all those Ph.D scholars who will work for the problems defined by DMRC. Joint efforts will also be made for the development of skilled technical manpower well versed in automation, design, development and know-how of technology. The engineers and officers of DMRC having M. Tech. /M.E degrees will be able to take up such projects in addition to their assignments. DMRC may also provide summer internship to students of our university.

In last column, DMRC and DTU will establish a Joint Interface Committee (JIC) to implement the MoU. **Prof. S. Maji**, Dean, IRD was appointed as the Chairman of JIC. The high level committee will consist of representatives from both the organizations, with matching expertise in Electrical, Electronics and Computer Engineering.

National Youth Summit organized

Volunteer for Better India (VBI), an Art of Living initiative organized the United We March: the National Youth Summit on 2nd Feb, 2013. This grand and unique event witnessed 11 expert agencies of international repute addressing the vital and primary concerns of the country on one forum. The Summit was officiated by a lamp lighting ceremony, collectively endorsed by Prof. P. B. Sharma, Honorable Vice Chancellor, the 11 expert partner agencies and 4 youth summit participants representing the 4 zones of India. Founder of The Art of Living Foundation, His Holiness Sri Sri Ravi Shankar reinforced that the youth can make a difference to the society and encouraged them to dream and move ahead with enthusiasm despite difficulties and criticism.

The summit saw a gathering of more than 1300 participants from 15 states of India, and faculty members from reputed universities across India.

Seven separate workshops were held separately for several pertinent issues followed by a media grand finale event at Ramlila Maidan, where more than 0.5 lac people solemnly swore to tackle the issues of VBI.

MoU extended with Lockheed Martin

The DTU-Lockheed Martin project which aims at the development of Next-Generation urban unmanned aerial vehicle is one of the most innovative and productive projects going on in Delhi Technological University. The first phase of the project was successfully completed on November 3rd 2012, when the prototype named 'Aarush' was unveiled by Padma Shri Dr V. K. Saraswat, scientific advisor to Ministry of Defense and Director General, Defense Research and Development Organisation (DRDO) at the India Habitat Centre. The Public Ceremony was followed by a flight demonstration on the day after. Being pleased with project's success Lockheed Martin Corporation agreed to extend the MoU with a funding of $200,000 for the next two years.

Having developed the first prototype Aarush-X1, the project now aims at developing a second prototype with technology support from Industry partners in India. This prototype will be tailor made for a specific defense or civilian

application. Lockheed Martin representatives, Mr. John J. Sheehan, Senior Systems Engineer and Dr. Peter Drewes, Business Innovation manager-autonomous systems visited the university during the last week of April where they had a discussion with the team about budget, schedule and future plans. Later in the meeting, a MoU was signed between Lockheed Martin and Delhi Technological University, fueling the second phase of the project. The Vice Chancellor exuberantly acknowledged the support from Lockheed Martin and said that the university will be proud to present India's first Intelligent Unmanned Aerial Surveillance System in the next two years. The team is currently led by Professor NS Raghava, faculty advisor of UAS-DTU.

4   IN THE LIMELIGHT

Workshop on IPR and Patents organized

In order to increase awareness on Intellectual Property Rights, its objectives, policies and implications among the students and faculty members of the university, a one-day workshop on 'Intellectual Property Rights (IPR) and Patents' was organized on 8th March, 2013 at campus by DSM. The workshop was inaugurated by **Prof. P.B. Sharma,** Honourable Vice Chancellor in the presence of **Prof. Moin uddin,** Honorable Pro Vice Chancellor and **Dr. Suri,** Head, DSM among others.

In his address, **Prof. P.B. Sharma**, Honorable Vice Chancellor said, *"Traditionally, as Indians we have always believed in free dissemination of knowledge for the benefit of mankind but today we are in an entirely different set-up and if we don't safeguard our intellectual property, it will be claimed by someone else. Patenting ideas and design is the shortest way of protecting Intellectual rights. Hence, it is important for the Universities in India to include IP education in their course-curriculum. This workshop will become turning point for the participants. "*

He also advocated for establishment of an IPR

Cell in campus to assist faculty members and students for filling and processing their patent applications".

In his presentation, **Mr. T.C James**, Director, NIPO, Former director (IPRs) said that intangible ideas need to be converted into tangible properties. "Intellectual Property is a form of intangible property and consists of – trade secrets, patents, trademarks, copyrights and publications. Much like personal or real property, IP holds ownership rights and can be protected from use or theft by others," he said.

The day also saw presentations by **Mr. T.C James**, Director, NIPO, Former director (IPRs) on *"Introduction to intellectual Property Rights and Patents"*, *"Scope of Patents and criteria for patenting"* and **Dr. K.S. Kardam,** Deputy Controller of Patents & Designs, IP Office on "Patenting in India: Procedure for Application & Grant" and "Patenting in abroad: procedure, international & national phases".

Workshop on Water Sector organized

Water Sector Training & Capability Building Programme organized in collaboration with NTU Department of Environment Engineering organized five days Water Sector Training & Capability Building Programme for the NCT of Delhi on 11-15 March, 2013. The event was inaugurated by **Prof. P.B. Sharma,** Honorable Vice Chancellor. **Prof. Li. Bing,** Director, Nanyang Technological University was the keynote speaker on this momentous occasion.

Water crisis is looming large on nation and the world; more so on India as we have destroyed our water bodies and polluted our rivers very badly. The urbanization and rise of middle class has further made the crisis worse as the requirement of water is constantly going up. It is also a matter of great concern that while less than 3 percent of total water available for human use which includes reverse water bodies and underground, of which 70 percent or more goes for agriculture needs; thereby leaving very little to meet requirements of industry and human needs. In this context is absolutely important to develop advance technology for the treatment of recycled water as well the technology for mitigating river water pollution and pollution of water bodies.

Prof. S.K Singh, HOD and **Dr. Albino Kumar,** Department of Environment Engineering are the coordinators of this training programme. Welcoming the delegates, **Prof. P.B. Sharma,** Honorable Vice Chancellor said,

> *Water treatment and recycling water is the lifeline for sustainability. We in India have paid least regards to the conservation of water as well as for the development of water technology for recycling and reuse. This training and Capability Building programme could not have been organised at better time when the public movement for saving Yamuna is having such as high prominence.*

More of such events will be organized in the near future.

Prof. Peter Jimack, University of Leeds visits campus

Our university has a rich tradition of creating a talent pool of its enlightened students, professionals from the industry and eminent academicians from other leading institutions. Lecture by **Prof. Peter Jimack,** Dean of Faculty of Engineering and Professor at School of Computing, University of Leeds, UK visited campus on 12th March, 2013 to explore the opportunities for collaboration.

The Delegation was received by **Prof. P.B Sharma,** Honorable Vice Chancellor and **Dr. Ruchika Malhotra**, Assistant Professor, Department of Software Engineering. In the words of **Prof. P.B Sharma,** "International Tie Up with leading Science and Technology Universities shall foster new horizons of research and innovations at DTU".

"This interaction will help students of our university to explore global business dynamics and provide opportunities for internship in University of Leeds, UK," informed **Dr. Ruchika**
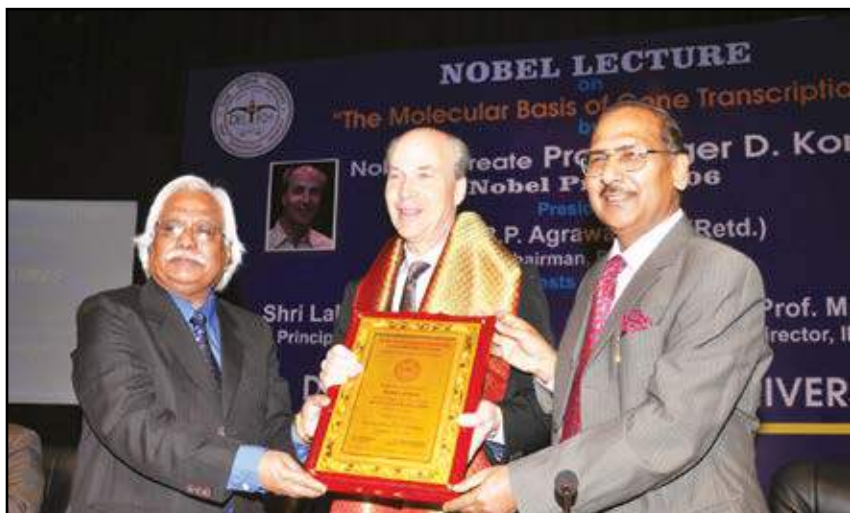
Malhotra, Assistant Professor, Department of Software Engineering. Faculty members, research scholars and several students attended the event overwhelmingly."
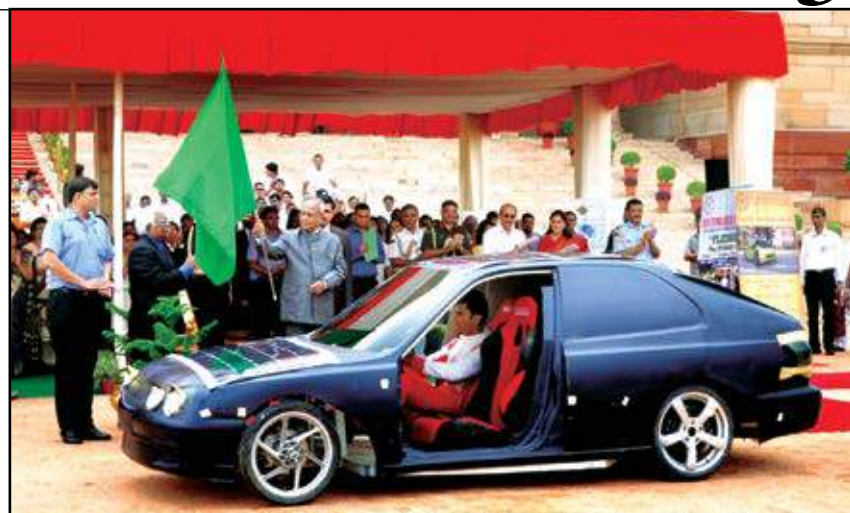

Prof. Peter Jimack, Dean of Faculty of Engineering, University of Leeds, UK also delivered lecture on "Development and Application of Efficient and Reliable Numerical Tools for the Simulation of Multiscale Phase-Change Problems". In his lecture he reviewed the ap-

plication of advanced numerical techniques such as adaptive mesh refinement, implicit time-stepping, multigrid solvers and massively parallel implementations as a route to obtaining quantitative predictions from the numerical simulation of binary alloy solidification in three space dimensions. These computational techniques were presented for a particular mathematical model, based upon the phase-field approach, however their applicability is of greater generality than for the specific phase-field model used here. In particular, the implicit second order time discretization, combined with the use of second order spatial differences, yields a large nonlinear system of algebraic equations at each time step. It was demonstrated that these equations may be solved reliably and efficiently through the use of a nonlinear multigrid scheme for locally refined grids. The efficiency of the implicit approach and the multigrid solver are demonstrated through sample computational results for the simulation of the growth of dendrite structures.

HIGHLIGHTS OF 2012-13 5

Nobel Lecture on "Molecular Basis of Gene Transcription" by Nobel Laureate Prof. Rodger D. Kornberg (Noble Prize 2006) at DTU, December 19, 2012

Flag Off of DTU Passenger Solar Car by Hon'ble Shri Pranab Mukherjee, President of India on September 4th, 2012 at Rashtrapati Bhavan, New Delhi

Hon'ble Chancellor, DTU Shri Tejendra Khanna, Lt. Governor Delhi, Dr. A. K. Walia, Hon'ble Minister Higher and Technical Education, Chairman BoM, DTU Shri R. P. Agrawal and Vice Chancellor, DTU Prof. P. B. Sharma laying the Foundation Stone for the New Academic Block in DTU Campus, January 11, 2013

Distinguished Scientist Prof. Goverdhan Mehta, National Research Professor and Dignitaries at the First Convocation of DTU, January 11, 2013

DTU UAS AARUSH X1, Unmanned Aircraft Systems, unveiled by Padma Shri Dr. V. K. Saraswat, Director General, DRDO in presence of Chairman BoM, Shri R. P. Agrawal, November 2, 2012

Prof. D. P. Agrawal, Hon'ble Chairman, U.P.S.C. delivering the DTU Foundation Day Lecture, July 15, 2012

Prof. Ved Prakash, Hon'ble Chairman, UGC at the First Global Alumni Conclave, January 7, 2012

Dr. Ron Berkman, President of Cleveland State University, Dr. Monte Ahuja, former Chairman, Cleveland State University and distinguished alumnus Shri Raj Soin with the Mini Baja of DTU, March 9, 2012

6 ENGIFEST 2013

Engifest'13 successfully concludes

With the dawn of the month of February, the grandest fests of the town, the behemoth of the fests –ENGIFEST'13 took place on the campus from 14th February to 17th February, 2013. This year's cultural festival was conducted under the dynamic guidance and chairmanship of **Dr. Jai Gopal,** Chairman, Cultural Council, along with active contribution from Manender Kumar, President, D.T.U.S.A. The fest was inaugurated on 14 February 2013. On this momentous affair **Prof. P. B. Sharma**, Honorable Vice Chancellor had said, *"We look forward to the convergence of cultural, philosophical, scientific and technological brainwaves during Engifest 2013. Let us together prepare the young professionals of 21st century devoted to cultivating capabilities and values together to serve the society with utmost devotion and commitment."*

The ceremony brought a mix of culture on the stage as various students performed various dances and songs. **Aasmaan**, the theme song of the fest, performed by **Madhurima**- *the music society* of the college- inspired the students to reach the zenith's height.

As the evening proceeded, the **Hasya Kavi Sammelan** saw a jam packed auditorium. Many esteemed kavi and kavyitris viz Shri Vineet Pandey, Dr Vishnu Saxena, Shri Surya Kumar Pandey, Shri Manveer Madhur, Shri Shambhu Shekhar, Shri Sunil Jogi, Shri Gajendra Solanki, Dr Sarita Sharma painted the atmosphere with their funny poems and limericks on topics varying from the political mayhem of our country to the hep culture which encourages the idea of romantic couples displaying their love on the day of St. Valentine.

The second day witnessed **Soundtrack-** *the singing competition* and **Spandan- the solo and group dance competitions.* These two events saw an overwhelming participation with several music and dance enthusiasts flocking in large numbers, including those from reputed colleges like LSR, SRCC, & Venkateshwar, among others. But the most anticipated event of the day and maybe the whole fest was **Paridhan**, *the Fashion Parade*, which had teams from college like LSR & LHMC participating enthusiastically. Although the event had to be postponed and then shifted from OAT to the auditorium owing to the unexpected torrential rain, nothing could dampen the spirits of the cheering audiences as the fashionistas paraded into the limelight, making the event a huge success.

The third day's celebrations began with **Natya**, *the stage play*. Drama societies from different colleges took part in the competition and performed their hour and a half long performances. The event saw performances by students from LSR, Hansraj, IP University, our own college, and many others. Ms. Subhashini Dewada, a renowned TV actress and Vaidihi Kapoor, an independent filmmaker and photographer were the eminent judges who evaluated this stage play competition. The day was made even bigger as **Mr Sushil Kumar**, *the beloved Olympic Silver Medal winning wrestler*, was present as the chief guest.

To enthuse all the music lovers, **Battle of Bands** and **Arpeggio** were rolled out. Battle of Bands saw college bands from across the country battling it out for the crown of the best band. **Frequency**, **October** and **Ceaser** were the names present at the Rock Night. Another famous event of the day was the Starwars which called upon stage the famous amateur astronomer and chairman of S.P.A.C.E, Mr. C.B. Devgun as the guest lecturer. The lecture was followed by a quizzing event on astronomy which saw a participation of about 10 teams.

Nukkad- the street play competition, was one of the main events of the concluding day as a mob gathered to see the performers, all clad in the same color kurtas and calling to the audiences with their "SUNO SUNO SUNO"; another street event was the street dance was also organized.

'**Solo Dance**', '**Bhangra**' – *Punjabi folk dance*' and '*Cinefille*', which had numerous classic foreign movies on show like the famous Pans Labyrinth, were some of the attractions of the fourth and the final day of the cultural extravaganza.

And the most scintillating end to the four day gala was the **Star Nite** as thousands of students danced and went crazy to the melodious symphonies of Punjabi folk singer **Harbhajan Mann.** The whole air was filled with the enchanting voice of the Mann of music.

On this occasion **Prof. P.B. Sharma**, Honourable Vice Chancellor articulated his sentiments. An excerpt from his closing speech read, *"This year's Engifest-2013 specially focused on "Celebrating the Spirit of Young India". The new and improved India is highly creative; it is energetic. Its enthusiasm is of a very high order. Its urge to excel is visible all across the human endeavors and above all, India has understood the value and worth of knowledge and has recognized that the power of innovation holds a strong agenda in their mission excellence."*

So even though the weather forecasts came true and it rained, yet this year's Engifest was one of the biggest successes ever and hope to see more such Engifests in the future.

8 STARS ON THE HORIZON

Stars on the horizon

Tushar Bindal

CAT score: 99.89 percentile

Calls Received: IIM-I, IIM-C, IIM-L, 6 New IIMs

Success Mantra: The only mantra: enjoy the process. Learn as much as you can. Don't take undue pressure. Think logically and work diligently.

Main Areas to focus on: Focus on improving your weak areas and keep practicing in strong areas.

Advice to juniors: *"Getting an admission into the IIMs is the easiest thing you can do. Life in IIM will be much tougher."* This is the gyaan others give. I don't know how true this is but after my interaction with IIM alumni, I feel it is an understatement. One thing I know is that CAT is even easier than interviews. So you can say getting a good percentile in CAT is the easiest thing you can do related to IIM. So just learn as much as you can while preparing for CAT. Read newspapers regularly. Try to develop a more logical thought process and gain as much knowledge as you can. In short, do what it takes to become a better manager in life.

Anantika Gupta

CAT Score: 99.41 percentile

Calls Received: IIM C, L, K, I, new IIMs, IIFT, XLRI, FMS, MDI, SP Jain, Narsee Monjee, SIBM, SCMHRD
Success Mantra: Regular Practice, lots of mock tests

Main Areas to focus on: For engineers, English is the Achilles' heel; it's essential to read novels and magazines and make thorough reading of newspapers second nature; math is something all of us can handle fairly well, but grammar and GK takes a considerable amount of time to master.

Advice to Juniors: An average of three hours every day, beginning somewhere around July, is good enough to sail through. General knowledge is more than important for the processes post CAT. So start early, practice, read, and stay abreast of the latest developments in India and the world.

Mayank Nandwani

CAT Score: 99.51

Calls Received: IIM-K

Success Mantra: I believe that taking online mock tests and working on my weak areas helped me pull it off. Analyzing the mock tests was the most important part of my preparation.
Main Areas to focus on: Since CAT a computer based test, one can get as many as 5-6 questions from a single topic. So focusing on a few areas and leaving out the rest is not how one should go about it. Each topic is important and time should allocated according to one's proficiency in that topic.

Advice to Juniors: Take as many mock tests as you can. It will help you adapt to the computer based testing format. All the best!

Mayank Khatri

CAT Score: 99.85 percentile

Calls Received: IIM Calcutta, IIM Lucknow, FMS
Success Mantra: Nothing extraordinary to be honest! I just kept myself in touch with Quant and LR (through class assignments and puzzles) and tried to read newspapers/editorials every day, even if they seemed boring, prima facie. But perhaps, the most advantageous part of my preparation was to give AIMCATs regularly.

Main Areas to focus on: For Quant, conceptual understanding is very important. Concepts are quite easy, it's just how fast can you recall them, & for that you must understand it deeply. Try to learn to calculate fast, preferably, mentally, because questions are generally easy, it's just that some of them eat up a lot of time.

Advice to Juniors: First & foremost, MBA is not a bed of roses. Don't try to jump on the bandwagon for money. Yes, the salaries are exorbitant (though reasonably) but hugely dependent on the economic conditions. If conditions are poor, placements suffer heavily. Give it a thought - When you pass-out of a B-school, you are supposed to be one of brains behind Billion Dollars companies. So you can imagine the pressure! Try building your Quant, Vocabulary & Reasoning by discussing questions with friends & please try to keep in touch with your B.tech subjects.

Siddhant Malik

CAT Score: 99.16 percentile

Calls Received: IIM Ranchi;IIM Raipur;IIM Kashipur;IIM Rohtak;IIM Trichy;IIM Udaipur. Didn't apply for FMS and other similar institutes

Success Mantra: Fight till the last minute of the exam! Don't give up even if you haven't prepared for it seriously.

Main Areas to focus on: It is subjective. It varies from person to person. The main thing is one should figure out his own weak areas and try improving on them. My reading comprehension skills were poor so I tried practising their tests.
Advice to Juniors: CAT is an exam where even with almost no preparation one can get a decent score (valid only if you are in a good college like ours). But trust me last minute preparation does help. You can start by revising some sections of quantitative ability and giving some tests for verbal ability. Almost all coaching institutes offer online test series so you can join that and practice some of the tests just to get the feel of the exam and also to learn how to manage time better. Don't start preparing for CAT early. Six months is more than enough, anymore will burn you out.

For the exam day: Give CAT with a temperament like you don't need its score; like you just don't care. Trust me you will do way better than you expect!

Jayant Chowdhary

GRE Score: 334/340

College admits: Carnegie Mellon University, Arizona State University, University of Texas at Dallas.
Success Mantra: "You miss all the shots you don't take", so don't be scared of failing, make impossible goals and you'll be surprised at how many of them you end up achieving.

Main Areas to focus on:
For college: academics, liking your work, trying to do good work during your internships, projects.
For GRE: Reading, Reading and Reading!

Advice to Juniors: Concentrate on getting a good percentage even though it may not seem very enjoyable. Make use of the minor and major projects in your curriculum to work on some good ones. Give more emphasis to reading rather than mugging up words for the new GRE. Get LOR from profs who know you and who have taught you instead of getting LORs from the HOD just for the sake of it. Lastly, just ENJOY your time in college, it's not coming back.

Anirudh Tewathia

CAT: 99.95 || **XAT:** 99.98

Calls received: IIM-C, IIM-L, new IIM's, XLRI-BM, FMS, IIFT, MDI, NMIMS et al.

Main Areas to focus on: RC (Reading Comprehension) is almost always the deciding factor. You can manage a good score even if you skip a topic or three, in Quant, or if you're uncomfortable with some questions in Verbal (Para-jumbles, Para-completions, Sentence Correction, FIJ's etc.); but with 10-12 questions, out of 30, in the current format, on RC, you can't afford to ignore it.

Advice to Juniors: If you have less than 80% aggregate in college(or in 12th, or in 10th), don't bother with CAT. Go for GRE or IAS or something.

Arushi Arora

GRE Score: 330/340; TOEFL: 118/120; XAT: 99.05%

College Admits: Stanford University, Masters in Electrical Engineering, University of California San Diego (MS) and University of Michigan, Ann Arbor(PhD.)

Calls Received: Interview Calls from IIM Indore, IIM Kozhikode, XLRI- BM & HRM.

Success Mantra: Work hard and do your best, always.

Main Areas to focus on: College academic grades, GRE, TOEFL, relevant work in area of interest, extracurricular- (Get involved in as many activities as you can in your 1st year- then pick up 1 or 2 activities and delve deep into them - this way you maximize your learning.)

Advice to Juniors: Do not be limited in vision or dreams. Try to talk to as many people as you can and see the various opportunities that the world has to offer. To figure out exactly what I wanted to do, I interned at several different places over 4 years and visualized myself pursuing that career. Keep looking for what really interests you (I will recommend hearing Steve Jobs speech, if one hasn't heard it yet) and then start preparing to achieve it- It's never too early. Applying for MS is a long process and I lost hope many times over this year- Just Keep Faith and push on!

Tanay Sukumar

CAT percentile: 99.51

Calls received: IIM Kozhikode, New IIMs, FMS Delhi

Main Areas to focus on: If you are thorough with basics of school-level mathematics and are good at language, join a test series around the beginning of your final year, and practise questions as much as you can. The actual test lies in not intellect, but smartness: the challenge is time management. So work coolly towards improving on speed and there's no big problem there.

If you feel you're not much thorough with mathematics (we all forget even simple concepts of subjects we don't like much, don't we!), then you need to get into the habit soon! You are going to need sound quantitative skills for your placements as well, so better to start while you're in your third year.

Advice to Juniors: If you're not good at language, you need to start as early as possible. Language is going to be with your career forever and you can't afford to be too poor at it, even if you ignore CAT. Read the newspaper regularly.

Remember, CAT is all about your natural IQ. When you prepare, don't work towards CAT, but towards developing a **lifelong** comfort towards all the four question types: Quantitative Ability, Verbal Ability, Logical Reasoning and Data Interpretation. Once that comfort comes in, it's all yours! All the best!

Shreya Jain

GRE score: 328/340

College Admits: Carnegie Mellon University, MS in ECE; University of Minnesota, Twin cities, MS in computer engineering

Success Mantra: Dream big, work hard and then wait for IT! Remember, only YOU can put YOU down.

Main areas to focus on: The new GRE's verbal section is all about comprehension. So read a truckload of boring articles/books to build up your stamina. Just make sure you double check your answers in the quant section.

Advice to Juniors: Put a lot of thought into your Statement of Purpose; talk about who you are, what you plan to do with your degree and how you'll contribute to the school. LORs should be about your all round-edness. If it's only about your project, then it's too narrow. Your grades can do wonders! Do relevant projects/research; professors prefer students who've had some experience. After applying write to professors (only once!), it helps. Rely on your luck. Just don't miss out on all the other things; It's the things you don't do you regret the most in your life.

Ravi Nagpal

GRE Score: 326/340 (Verbal:160, Quant: 166)

Calls received/College admits: None (No current plans to apply)

Success Mantra: Keep it simple (admittedly that's easier said than done) and play to your strengths. Life is at it's best when you've learned to accept both success/failure and take the subsequent praise/criticism with humility.

Main areas to focus on: The GRE itself is basically one long test of your reading ability. Oddly enough, that applies to the math sections too because anyone who's managed to haul themselves into this college should be able to breeze through the math syllabus in 2 days. Vocabulary building is an absolute must, along with a keen analytical mind because the comprehension passages are tough and require for you to be able to read between the lines. Lastly and perhaps most importantly, please for the love of god treat the analytical writing sections with respect.

Advice to my juniors: Trust your gut as far as possible, while being pragmatic at the same time. Also being able to view the world around you with optimism and a healthy sense of humor, especially when things seem at their worst, is an ability not to be underestimated.

DTU Authorities and Team DTU Times congratulates all the achievers on their stupendous success.

10 TOPPERS CLUB

"MANY MAN! MANY MACHINE !"

That's what we quote when it comes to imbibing technicalities into our conscience. We are the engineers budding at Delhi Technological University.

The Alumni Association, Delhi College of Engineering, ushered into new segment by enrolling the first batch of its new avatar that is Delhi Technological University (DTU). **The Annual Alumni Meet** took place at FICCI auditorium, New Delhi on 9th February, 2013. Felicitating eminent alumni, who have lived up to expectations and brought great laurels to their alma mater, was the essence of the meet.

Presiding over the chair were **Shri. R.P. Aggarwal**, IAS (retd.), Chairman, BoB-DTU and **Mr. Karnal Singh,** President, DCE Alumni Association. They took the message forward and successfully propagated it. Various events unfolded during the course of the day, namely, *'Hasya Kavi Sammelan'* - an enriching beginning to the auspicious occasion. *'Kare-Kram'* ensured that alumni felt relaxed and the atmosphere lively. The ceremony also included Felicitation of Golden Jubilee Batch of 1963 and Silver Jubilee Batch of 1988 alumni.

Mr. Ved Prakash, Mr. Jaspreet Kaur Dhanjal, Mr. Dhanajay Trivedi, Ms. Ankita, Mr. Rohit Goyal, Ms. Mansi Puri, Ms. Sarah Waheed Khan, Mr. Shafqat Abdullah Khan, Ms. Swati, Mr. Khushu Gupta, Ms.Shilpi Gupta, Mr. Sandeep Singh, Mr. Vaibhav, Ms. Betsy Sebastin and **Mr. Piyush Khandelwal** received accolades for Meritorious Students Award for 2013.

Amongst the faculty **Prof. N. L. Sachdeva** , **Mr.K.C. Palta** and **Prof. B.N. Mishra** were honoured for their commendable contribution to both the disciples of science and teaching.

The event concluded with a vote of thanks by the Secretary of the Organising Committee.

The event also aimed to encourage young talent in the University as well as provide inspiration. It was another approach towards connecting the elder generation to the newer and upcoming Gen-Now. Our university continues to nurture and inspire us to learn, strive and achieve our goals.

Here's a tete-a-tete with the toppers of DTU 2013 Batch.

Garima Lalwani, COE

82.83% (till 6th Semester)

Achievements So Far : Maintaining DR1 in COE and being awarded by the university for the same.
Received Times of India, Student of the Year Award in school.
Full Time Employment Offer from Goldman Sachs during College Placement Season.

Best Memory of College Life: College life is all about having fun with friends, lectures: attending as well as bunking, group studies, brains all jammed up with the syllabus just the night before exam, treats and parties even for every minutest occasion. It is hard to pick out one such specific memory, since each day was like a new memory that I would definitely cherish throughout my life. However, Treasure Hunt- in my first year of college- was one of the most memorable days that I had spent. The excitement and the thrill that I experienced that day, was just incredible and it still makes me laugh.

Advice to Juniors :
I would say maintain good grades , work smart , get exposure by participating in various events during Fests and at Inter College and National Levels. When it comes to Internship, take up good projects that will actually help you gain knowledge and do start strengthening basics from Placement related perspective at an early stage.

Nupur Aggarwal, SE

81.5% (till 6th Semester)

Achievements so far : Pan India top finalists of MAD LTD. organized by HCL Technologies.
Best performer award during my intern at Vodafone India.
Gold medal for DR 1 in SE presented by the alumni association of DCE.

Best Memory of College Life : The last year at the college will always hold a special place in my life. It is always the fun and foolishness that you did at a place that you remember forever. The last night of the fest is one of the most 'recent best' memories of college life. The most exciting part was staying at the hostel with no permissions and hiding from the prying eyes of the wardens. The next morning while getting back home my friend and I were so sleepy that we missed the Kashmiri gate station and reached Dilshad Garden. It was on the way back that we had been the most alert than ever before.

Advice to Juniors : Work hard but don't forget to party harder. The years spent at college are lesser than those spent anywhere else. So enjoy each day.

Aseem Sayal, EEE

82.85% (till 6th Semester)

Achievements So Far : Department Rank 1 in all five semesters, EEE Branch, DTU (2009-2013)
Meritorious Student Award 2013 – Given by DCE Alumni Association for outstanding Academic Performance
Recipient of Dr. J.K. Pal Award – Given by IEEE Delhi Section for outstanding contribution to IEEE at section level
Got PPO (pre placement offer) from Qualcomm of INR 16 lacs – Bangalore
Vice Chairman of IEEE Student Branch at Delhi Technological University
3 IEEE International Conference Publications – IEEE SCES 2012 and IEEE ICCPCT 2013
1 National Level Conference Publication – NEEC 2011
1 International Journal paper publication – ISRN Signal Processing – Hindawi Publications
Won the Best Paper Award (BPA) under the Under Graduate (UG) category in 1 IEEE SCES 2012 conference
Projects and Internships at Qualcomm, PGCIL, IIT Delhi, GHTP, HiTech Robotics and DTU.

Best Memory of College Life : There are two things I'll never forget: First, when my best friends – Ishaan, Puneet, Gautam , Akshit and Vivek got placed/admitted for PhD programme and the second being when I got selected in the interview for internship at Qualcomm, the only interview that I have faced in my college life till now.

Advice to Juniors : All I would say is that these 4 years are the best time of your life. It's important to do the right things at the right times in order to succeed. One should gain maximum industrial exposure by internships, projects, extra-curricular activities by organizing events in college and at the same time should have good enough grades to apply for good companies...

C.V. Maitreyi, BT

78.7% (till 6th Semester)

Achievements so far:
Meritorious Student Award conferred by Alumni Association of DCE.
Awarded merit scholarship by DCE, Gold Medal for academic excellence by DPS, R.K. Puram.

Best Memory of College Life: It's been a fun ride all along.

Advice to Juniors:
Start working towards a career early on so that you're not overwhelmed in the final year of college.

Arushi Arora, EP

81.34% (till 6th Semester)

Achievements so far : Accepted to Masters in Electrical Engineering, Stanford University
Interview calls from IIM Indore, IIM Kozhikode, XLRI BM & HRM
Placed at Nisshinbo Holdings Ltd, Tokyo, Japan and KPMG.
Best Memory of College Life : Being a part of the DTU Times Team- meeting some of the most awesome, dedicated and wonderful people.

Advice to Juniors : After JEE & AIEEE, one doesn't feel like studying- but frankly speaking, college percentage does matter. Besides teaching you engineering, they determine one's Placements, CAT, GRE, and GMAT. So, balance work with play, so that one is able to pursue one's dream.

Ashish Rastogi, PSCT

81.13% (till 6th Semester)

Achievements so far:
DR 1 of PSCT branch
Coordinator of TATVA 2012, Annual Technical fest of Polymer Science and Chemical Technology Branch
Placed in IOCL

Best Memory of College Life : My Best memory of College life will always be TATVA-2012, in which I served as the coordinator. It has been a great learning curve for me, teaching me something more than what the books and classrooms can offer. More importantly, it was the time when I was able to interact with so many people, be it my own classmates, juniors, and many others who contributed to its success.

Advice to juniors : My advice to my juniors is quite simple. Try to put all your efforts in that direction where your interest lies, because it will always keep you involved and help you grow!

Anubha Gupta, ECE

85.28% (till 6th Semester)

Achievements so far : Secured DR 1 in ECE
Honoured by the Alumni Association of DCE
Stood first in Fedoraz Maze (Linux Challenge), organised by Phoenix, 2011.
Awarded Certificate of Accomplishment for completing the course on Introduction to Computer Science-Building a Search Engine, April 2012 organised by the professors of University of Virginia
Awarded Statement of Accomplishment for completing the Advanced Track of Introduction to Artificial Intelligence, Dec. 2011 with a score of 83.7% organised by the professors of Stanford University.

Best Memory of College Life : My college years have passed fleetingly with every incident leaving its own impression in my life.
Advice to Juniors : No doubt, studies and marks are important, for your resume, placement cut-offs etc. But this college life, this time, these friends, they won't come along the second time. Have your best time here. Indulge in extracurricular activities for they are good for experience. Don't go about with just hard work, do smart work!

Mihir Bhambri, ME

81.59% (till 6th Semester)
Achievements so far:
Securing DR 1 in ME
Awarded with semester-wise scholarships from the university
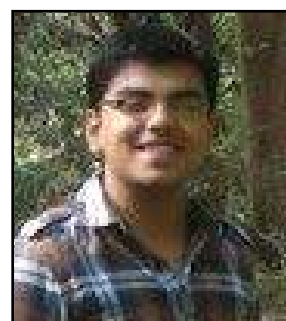Conferred gold medal by the Alumni Association of DCE

Head of Manufacturing, Team Defianz
Representing college at UK courtesy Team Defianz
Best memory of college life:
Well there are many memories to share yet some have been extra ordinarily special. One of those memories is that of our teacher running after us to stop us from bunking the class, something that makes mechanical department really very famous. Our teacher literally came after us into the Mech-C and took us from there to his class. That was really fun at that moment. Other memories include: me and my Team Defianz having dhaba-food dinners at wind tunnel, sleeping of footpath for an hour or so and then again work assiduously at the crunch time.
Advice to Juniors:
Don't just remain fixated on academics scores. Remember practical knowledge is really important. No, I am not talking about college practicals. It's the co-curricular activities that gives you an edge over the others!

Ankit Madan, AE

79.83% (till 6th Semester)

Achievements so far : Indian School of Business YLP 2012 admit
Securing DR 1 of AE

Best Memory of College Life : Being a fun-loving guy, the memory that I cherish the most is that of hanging around with friends and playing pranks on each other. I will never forget my first year days at the TRANSIT hostel. The long walks on the adjacent roads and the mid-night gatherings on the TRANSIT terrace. I especially recall the desperation and willingness to learn and compete which tends to ease out with time.

Advice to Juniors : I advise my juniors to think for themselves and not to get carried away by decisions that others make in their lives. Try to perceive what you want as early as possible. Do not get swayed away by what others are doing. Each one of you is rational and capable of making decisions. In other words, do not jump into the rat-race unless you really want the cheese. Be clear about your goals and the sequence in which you want events to occur in your life. Cheers!

Nipun Jain, PIE

78.31% (till 6th Semester)

Achievements so far : While my academic achievements have always pleased me, my real achievements come in the form of changes is my personality, attitude and learning. Participating and winning (sometimes!!) in different events and competitions in college has made me a more outgoing and cheerful person.

Best Memory of College Life : Undoubtedly the long cricket playing sessions, thanks to my cricket crazy classmates. Our commitment was such that be it scorching heat or rain and wind, once we decide to play nothing could deter us. I am so going to miss that.

Advice to Juniors : Be yourself. Don't hesitate in asking questions. Different teachers will give you different experiences (so don't mind if some of them don't give marks, think of it as a priceless experience in dealing with difficulties) and lastly try and maintain a balance- don't be a bookworm but never neglect your studies. Indulge in any extracurricular activity of your choice and pursue it passionately. Believe me; this will help you in your placements!

12 TECH FESTS 2013

Right after the **"most successful Engifest ever"** (in the words of our student council), our university saw a plethora of tech-fests being organized in the college. There were fests by every department and every tech organization in the college, and due to such a large number of events going on simultaneously, it was but natural for you to miss a couple of them. So we bring you a quick recap on all the tech-fests that were held.

PHOENIX
Organized by- CSI DTU chapter
CSI-DTU celebrated the spirit of engineering and technology at its annual techno management fest. **Mathtrix,** *the math quiz,* tested the number and math quotient of the students and the budding engineers. Another coding event dealt with segmented and modularized codes. **Blind Coding** was a coding event with a twist as the coding geeks had to code with the monitors of their computers switched off. The last day brought an end to the most enjoyable fest with the Valediction ceremony where all the winners were awarded and the efforts of the organizers appreciated.

TROIKA
Organized by- IEEE-DTU student branch
Definitely among the **biggest** tech-fests in the college, **TROIKA** saw a great number of events being held, both over FB and in college. The first event was **the online virtual stock marketing event,** which started around mid-January. **An online treasure hunt** and **a coding event** also tested the might of the students. The 4 day fiesta in college was full of events as well, consisting of **robo-racing, robo-wars, line following bots,** among others. Different events based on **hardware designing, programming problems, electrical circuitry** etc were held. The last day of this fest saw presentations by experts from the corporate world. This is one fest that definitely ended on a high note!

RENAISSANCE
Organized by- IET DTU student chapter
Aiming to achieve *"infinite innovation"*, **RENAISSANCE** aimed to be a platform for the engineers-in-waiting to showcase their technological prowess. The fest had an impressive lineup of events including robo rally, robo maze and line follower which had all the robotics-enthusiasts excited. **Anti-chess,** a big crowd puller, turned the tables on the participants where they had to lose their pieces to win. The not-so-technical among us had something to look forward too, with events like spelling bee and general knowledge quiz. The gamers were enthralled to no end with by the **LAN gaming** event. The 3 day event culminated in the valediction where all the winners were awarded certificates and goodies from the sponsors and the organizers took a bow, leaving every innovator, thinker and creator wanting for more.

KARYON
Organized by- BT department
KARYON aimed to provide a platform for students to flaunt their ingenuity and skills while still having fun. The fest was inaugurated with a series of guest lecture's *"Inspire"* in presence of many renowned names. Some of the events were **Biosudoku- Sudoku** with a twist, **Inquistivo**- the national level quiz, Quill Skills- the paper presentation, **FabCoat-** the designing extravaganza, among other. **"Green Pursuit"** saw participants solving clues and performing tasks and showing pure grit on the campus. **"Bond 007"** gave the participants the license to thrill with the whodunit mystery game where they were shown videos and then asked to conduct forensic tests to confirm the identity of culprit. The fest culminated in the closing ceremony where all the winners were awarded prizes.

THROTTLE
Organized by- AE department
Amongst the plethora of fests held this February was **Throttle**. The fest was supposed to be about everything automobile and it did not disappoint. The tech week saw competitions the likes of motorbike assembly and designing on the chassis of cars, along with some truly impressive events like the **Vintage Car Show** and the Grand Finale, the **Fast and Furious Night**. The **Vintage Car show** showcased some of the finest pieces of classic machinery, going back all the way to the late 30's. **FnF** certainly turned out to be a night to remember with participation from teams like **Derick Impex, Exclusive Motors, Indian Choppers** and **Big Boy Toyz.** From super bikes and stunt shows to some of the most expensive cars and craziest modifications, they had it all! While the competitions focused on technical awareness, the two mega events succeeded in enthralling us all with the best of the world of automobiles.

TATVA
Organized by- PCT department
If coding or robotics is not your cup of tea, don't be disappointed. **TATVA** had a bagful of events just for you. A **treasure hunt** teased the minds of the participants. Presentations on technical papers and business plans were held, proving to be an interesting & knowledgeable experience for the participants & audience. The event **"corporate roadies"** was a big success, where G.D, Case study and Quiz were organized in a series. The fest concluded with National Symposium on the theme 'Polymer for Next generation'.

MELIORA
Organized by SITE
One of the most awaited fest by programmers and web aficionados, **MELIORA** comprised of fun-filled events like codewar, web improvement, web development etc captivated the participants. Contestants had to think on their feet in events like on the spot web designing, switch programming, and group discussions. A **darts competition** was organized as well, to keep the non-coders/designers hooked as well!

AURORA
Organized by- EP Department
Armed with the tagline *"technology meets innovation"*, the annual Technical Fest of Department of Applied Physics was organized with great enthusiasm. To create buzz about the upcoming fest pre-events like **Inferno, Enigma** and **Digi-Reporting** were held. While Inferno required the participants to scrounge the campus in search of a hidden treasure, **Enigma** provided the same opportunity virtually. **Digi-Reporting** was an online photography contest. The 3 day extravaganza was filled with innovative events. The major attraction was **Bid to Win,** where you had to assemble the best cricket team with minimum amount! From hanging 6 nails on a taut string in the least possible time to balancing an egg on an inverted plate, the participants were in for a surprise in each level! It was indeed an enjoyable and enriching experience.

AEON
Organized by SSE-DTU
This fest had the most interesting mix of events lined up for the software geeks. The events like **UML Display**, **Software Display &Testing Geeks** were enough to keep any programmer happy. **Software Display** which as the name suggests was the competition where the software developers displayed their own softwares whereas UML display involved the display of UML diagrams. Testing geeks checked the aptitude of the software engineer by giving case studies on the basis of which the software had to be tested. Other interesting coding events were held as well. Big thumbs up to the organizers and the council members who worked effortlessly to make this season's fest a success.

ASYMPTOTES
Organized by- MACS-DTU
Organized for the first time, the organizers left no stone unturned in making their fest a grand event. A workshop on **2D and 3D animation** covering animation, visual effects, graphics and film making was organized. One online event invited new mobile app ideas from the crowd with or without coding while another was a unique event that developed a **virtual stock market**. An event named **Mathionaire** asked the participants brain racking questions based on logic, pure mathematics, mental ability and also audio visual rounds. One of the major attractions was the gaming event. Straw it 3D saw straw bridges being built with great enthusiasm. Daily events like Know your college also enjoyed enormous participation and crowd appreciation. For its maiden voyage, **ASYMPTOTES** sure set high standards!

AARAMBH
Organized by- SCEE
In keeping with the theme *'Environment'*, the fest saw a host of practical, interactive and knowledgeable events encompassing various fields of civil and environment like **Recyclomania, Construction Modelling, Site visits** etc. With a perfect amalgamation of technical events which included **CiviQ, Build It 2 Win It**, & popular cultural events like **Drink Your Way Out, Struggle to Juggle and Pop the Corn**, AARAMBH saw enthusiast from all departments try their luck. . The concluding felicitation ceremony brought down the curtains on this successful techweek.

INNOVA
Organized by- Civil and ENE Departments
The itinerary of one the **oldest and finest** fests of DTU contained multiple events, some of which were **Disaster Management, Cad Craft, Boomerang, Dream City, Clay Play, RoboMaze, Crush the Robo, Bizzeal** and **Junkieard,** among others. INNOVA, for the first time, also introduced a series of **6 Lectures** from professionals and experts belonging to diverse fields, including professors from **MIT**. The student council of INNOVA'13 also organized a show by the famous drummer Darpan Dua so as to make the whole affair enriching for the students. This fest was truly an enthralling experience for one and all.

B.E. , MECHANICAL ENGINEERING 1

B.E. , MECHANICAL ENGINEERING

B.E. , ENVIRONMENTAL ENGINEERING

B.E. , BIOTECHNOLOGY ENGINEE

B.E. , CIVIL ENGINEERING

B.E. , ELECTRICAL ENGINEERING

G 2

B.E. , PRODUCTION AND INDUSTRIAL ENGINEERING

ERING

B.E. , INFORMATION TECHNOLOGY

B.E. , COMPUTER ENGINEERING

DTU TIMES

B.TECH. , ELECTRICAL AND ELECT

MBA

B.TECH. , ENGINEERING PHYSICS

M.TECH

B.E. , POLYMER SCIENCE AND CH

RONICS ENGINEERING

B.TECH. , SOFTWARE ENGINEERING

EMICAL TECHNOLOGY

B.E. , ELECTRONICS AND COMMUNICATION ENGINEERING

B.TECH. , AUTOMOTIVE ENGINEERING

18   FARE THEE WELL

Shashank Sharma, Student Head; 4th Year, EP

I have been a part of DTU Times for a long time now, and it would be hard to pinpoint just one memory and label it the best. Working for DTU Times taught me a lot of things, and brought me a lot of friends who will be by my side all my life. To be able to experience working alongside these extremely talented individuals, dealing with deadlines, planning editions and thinking about the future of the paper, it was all a lot of fun.

Working for DTU Times is definitely one of the major highlights of my college life. Everyday spent working with the team was a delight and more so when we were not working and instead letting our hair down. It's truly an honour to have worked and seen individuals so talented and so dedicated. I learned a lot of valuable life lessons along the way, and I tried my best to foster an environment of creativity in the group.

Here I'd like to quote one of my favourite fictional characters, *"I don't know half of you half as well as I should like; and I like less than half of you half as well as you deserve."* -Bilbo Baggins.

Anand Vardhan, Associate Editor; 4th Year, ME.

I decided to join DTU Times at the beginning of my third year in college. And wasn't the decision an awesome one! It was my first contact with the (only) literary club in college, and it was more than stimulating. After I was on board I took a great interest in the enigmatic everything that kept DTU Times going, from the article-people to the news-people to the compilation-people and the editors. It was a great team.

The work was challenging at times, with short deadlines, but I never found it burdening. The prospect of seeing the next edition of that beautiful printed newsletter as soon as possible kept us going. The paper also underwent great transition under the then Student Head Prince Jain. He was a great binding force and a stimulus to the team. The team also came up with great ideas about design and content very frequently.

I became a part of the core team in my final year. We also recruited enthusiastic vibrant people which made the team even more colourful. The current Student Head Shashank has been a great friend and an entrepreneur of his own kind-always insisting on doing unorthodox things and giving DTU Times more faces than that of just a newsletter. I am personally in love with each member of the team. My only disappointment that remains is that I'll have to leave the team soon; but that would be only in physical presence-the memories, the awesome people, shall continue to dazzle me.

Nishchay Sharma, Head, Web Development Team; 4th Year, SE

I am a developer, so when I joined DTU Times in my first year, I didn't know how to write and the only literature I had read was a Harry Potter book. Though I am just as much illiterate as I was then, but the journey was more than just amazing. DTU Times was like a viewport for me to a completely different world that was beyond programming and algorithms. Every single team member is a genius in ways that others can't possibly think of! To mention a few, we have a Limca Book Record holder; a psychological guy who can make you wonder the color of the ring you are wearing; and of course, a few Times-like genius who had been the editor of HT/TOI at the age of 12! Unlike technical societies where everyone is the same breed, this makes us realize the diversity that exists around. Everyone is eager to learn from the other and thus, no doubt, our team meetings always ends up being a debate over random topics – game fiction, history, The Brain Project, possibility of events depicted in Terminator or Matrix, Evolution and God. And while we aren't discussing, we occasionally have Rise of Nations LAN parties. And let me assure you, they are no less than a World War! After all, we are all engineers in the end. ;)

Tanay Khandelwal, Head, Design Team; 4th Year, EEE

I joined DTU Times at a time when we were restructuring our team. From a small group, we've grown to the amazing team we have today. As the Head of the Design Team, I've had the opportunity to work with the most dedicated and talented designers in college. I think the newspaper has seen stark improvements in terms of content and design. And with the current team and faculty advisors, I'm sure it's only going to get better.

I'd like to thank the entire team, my juniors, seniors, and faculty advisors for all the support. I wish you all the best for the future!

Arushi Arora, Editor-in-chief; 4th Year, EP

I had walked in quietly into the dimly lit great hall of Knowledge Park late evening on one winter day in 2009, knowing no one except the voice of person who I knew on the phone as Abhishek Bindal and who had invited me for my very first DTU Times Meeting. I had wondered on how would ever mix up with everyone. This was yesterday and today, as the Editor-in-Chief of this wonderful organisation, I cannot imagine getting through college without meeting these people who made college so much fun. My love for this organisation and the love and respect I received back from the members made me get through the worst phases. As I look back all these four years, I don't remember my journey from a Columnist to an Editor-in-Chief. Rather I remember the people I worked with and the relationships I made. For me, my most wonderful and permanent memory of DTU Times will be its Human Resource and I am going to miss them very much.

Ishita Chawla, Editor-in-Chief; 4th Year, SE

I have been a part of the DTU Times team since almost four years now. So, when I was asked about my best memory as a part of DTU Times, I thought hard about the time gone by. I went down the memory lane and came back with not one, but a whole bunch of memorable moments. I still remember my happiness in seeing my first article in print for the paper, and the appreciation I got afterwards.

I also remember the awe which the seniors inspired in me and the amazement I felt when I saw the humungous pool of talent in the juniors. The whole process of learning, and then helping others learn was very fulfilling.

Reaching out to every corner of the college, encouraging budding writers, working late into the night to meet deadlines. And the exaltation on holding the latest edition- every step was filled with memories and learnings which I will cherish throughout my life.

At the end of this journey, I leave with a heavy heart but a lighter mind. This is because I know that the team is in good hands, hands who will make sure the legacy carries forward.

So here's wishing all the best to you team! Keep up the good work! And remember, the show must go on!

DTU TIDINGZ 19

National Symposium on Polymers for Next Generation organized

Eminence, excellence and inspiration are the words that resonated when the Department of Applied Chemistry & Polymer Technology organized a one-day symposium on 'Polymers for Next Generation' on 21st February, 2013. With an aim to create awareness about the emerging fields of polymer research that behold the potential of revolutionizing the future, the symposium saw fervent participation from the industry stalwarts, eminent personalities from academia, PhD scholars as well as undergraduate and postgraduate students. The symposium was organized by **Dr Richa Srivastava** as Faculty Coordinator and **Dr Ram Singh** as Faculty Advisor.

Prof S. Maji, Dean (IRD) DTU, had graced the occasion as Chief Guest. He enlightened the gathering about the need of using polymers in a more scientific and environmental friendly manner. **Prof D. Kumar,** Head, Department of Applied Chemistry & Polymer Technology, was the Guest of Honour. In his address, he focused on the basis of in-depth research going in polymer technology, mainly focusing on its future applications in various fields while laying down the fact that polymers are used everywhere and that it is up to mankind on how we manipulate and use their endless properties.

The following session primarily focused on the everyday use, disposal and manipulation of polymers. **Dr. Shruti Rai Bhardwaj,** Deputy Director, Ministry of Environment & Forest, Government of India, being the Special Invitee for the symposium threw some light on polymer waste management and the laws supporting the same. Other eminent speakers included

Dr. Prasun Roy from DRDO who discussed the utility of post-consumer PET waste as a potential feedstock for the next generation polymers; **Dr. Amitava Majumdar**, Associate Vice President and Head – R&D Moser Baer India Ltd spoke about the use of polymers in solar cells; **Dr. Suresh Chand,** Chief Scientist, National Physical Laboratory, Delhi presented his talk on the polymers for photovoltaics; **Shri Anil Kumar**, Ex. Director & Sr. Consultant (IPR), Ministry of MSME, Government of India articulated his discussion on Intellectual Property Rights(IPR) rights; and **Dr. Indrajit Roy,** Associate Professor, Department of Chemistry, University of Delhi discussed about polymers based nano-carriers in medicines.

The speakers gave very impressive and in-depth lectures on their specialized area with the audience benefitting immensely from their rich experience and expertise. The symposium unlocked the minds of the audience and compelled the attendees to wonder what other remarkable marvels these materials could offer.

Lecture Series on Automobile Engineering organized

The Institution of Mechanical Engineers (IMechE) in association with CASRAE organized a lecture session on topics relevant to aspiring automobile engineers on 19th February 2013. **Prof. L.M Das** and **Prof. S.N Naik** from IIT-D; and **Dr.Reji Mathi**- Senior Research Manager, IOC R&D Center were among the other dignitaries gracing the occasion.

Delivering the welcome address, **Prof. Naveen Kumar** heralded the mind-boggling session that began with discussions focusing on the pressing need of doing away with conventional energy forms as engine fuels. In order to facilitate better understanding of the engines from an industry point of view, deliberations on the procedures involved along with the standards employed in engines and engine oil testing were carried out. The two hour long session also witnessed the cross-questioning round wherein both distinguished faculty members as well as enthusiastic students raised a number of pertinent questions.

The session commenced with **Prof. LM Das** presenting his research on the use of hydrogen as an alternate fuel to petrol and diesel. The talk included topics like advantages and limitations of hydrogen fuel, strategies for hydrogen application, dual fuel mechanisms involving petrol-hydrogen and diesel-hydrogen. A comparative study between the currently available options and hydrogen fuel was made. Images from his laboratory in IIT-D were also shown. Work has already been started in this field. 3-wheelers making use of hydrogen fuel have already been developed by Mahindra that was exhibited at the Auto-Expo held last year.

Prof. SN Naik then enlightened the audience with his words of wisdom on the production of bio-oil from ligno-cellulosic biomass. Discussing about the major contributors of biomass, conversion of biomass to liquid, pyrolysis method and pyrolysis plants; **Prof. Naik** poignantly pointed that work in this field is still under the developmental stage in India.

Taking to the dais, **Dr. Reji Mathi** talked about the practical applications of having alternate fuels to conventional fuels. He also discussed about the lubricant functions and applications in automobile industry, engine oil development, additives used, test benches and engine testing- both standard and indigenous. The lecturers ended with a vote of thanks by **Prof. Naveen Kumar.**

Guest Lectures organized

The annual techno-management fest of Department of Civil and Environmental Engineering, Innova'13 organized a series of Guest Lectures spanning over a period of three days i.e. on 23rd January 2013, 29th January 2013 and 11th February, 2013.

Six distinguished personalities from all over the globe graced the students of our university with their highly thought-provoking lectures on a widely diversified array of subjects ranging from rural development, road and transport, economics to use of computational methods for state-of-art medical imaging tools.

The first day of the lecture session was addressed by **Mr. Manoj Aggarwal,** CEO, Highways DSC Limited who deliberated upon the issues concerning road transport. **Retd. Brigadier Gurmeet Kanwal**, CEO and Director, Centre for Land Warfare Studies addressed the gathering with his eloquent speech. **Dr. Amir Ullah Khan,** Deputy Director, Bill and Melinda Gates Foundation was another eminent speaker, who talked about international trade.

The second day of the session witnessed **Ms. Amy Canham,** Research Assistant, MIT, USA take to the dais. Coming all the way from USA, Ms. Canham provided a brilliant perspective about research especially in the field of human interface design. The last day of the session culminated with an impressive lecture by **Mr. Ramesh Raskar,** Associate Professor, MIT-USA via live video conferencing and that by **Mr. Nitin Aggarwal,** Director Technology, Sapient Global Markets which basically focused on data analysis.

20 DTU TIDINGZ

E-SUMMIT 2013 organized

An entrepreneur's mind lies dormant within us, ready to showcase its thoughts to the entire world. What we lack is the confidence and the platform to display and share these throbbing ideas. **E-SUMMIT 2013** provided exactly, that! Entrepreneurship-Summit, organized by E-Cell of our university on the 5th and 6th February 2013 this year, has always been a highly anticipated event in the campus and has feature over hundreds of participating students from all across the country. This event has been attracting prominent speakers and professionals ever since its inception in 2009 and this year was no exception.

The event commenced with the inauguration by the chief guest, **Mr. H.L. Attri,** Former Director and Member Secretary, GoI accompanied by our Honourable Vice Chancellor **Prof. P.B. Sharma.** The inauguration was followed by the first event for the day: Leadership Lectures. Leaders in the entrepreneurial world, including the likes of **Mr. Sudhir Kumar**, Founder, DefMart and **Mr. Ashutosh Kumar,** Executive Director of Jagriti Yatra, inspired the audience immensely.

Divine Visit to Akshardham
organized

An educational visit to Akshardham was recently organized by the University. 22 students and 4 faculty members visited the temple on 16th April,2013. The visit was a part of the University's efforts towards the spiritual development of its students, apart from the mental development. The team learnt about the life and teachings of Lord Swaminarayan. They also appreciated the intricately carved buildings and landscaped lawns of the complex. "Such trips are essential for the students as they help in developing the spiritual and emotional quotient. I am sure the students would take back a lot of teachings from this divine trip.", said Dr. Ruchika Malhotra, who coordinated the entire visit.

DTU Student **wins Top Designer Award**

Jitesh Khichar, 2nd Year, ECE was recently awarded with the top designer award in the **ICAN**"Design a logo" competition. He was also presented with a **Blackberry Z10** smartphone by the High Commissioner for Canada to India, **Stewart Beck**, at an **India-Canada Alumni Network (ICAN)** reception at Canada House in New Delhi. For the "Design a logo" contest, the participants were asked to design a new logo for ICAN. The new logo will be featured on ICAN's new mobile application and its website.

DelTech MUN 2013 organized

Following the trend of hosting successful MUN conferences in the past, our university held its annual model UN conference, **DelTech MUN 2013** on 9th and 10th February 2013. The MUN witnessed active participation of students from various institutions across the nation as delegates, members of the Executive Board and members of the International Press, all contributing equally towards its grand success. The entire conference was split up into six councils, each with their own agendas for discussion and set of delegates. The General Assembly had its discussion centered on solving the pending crisis in the Middle East. The Human Rights Council addressed grave international concerns regarding the subjugation of women, in light of the recent ban on hijab and also took cognizance of the human rights violations against the Rohingya Muslims in Myanmar, who are considered the most persecuted community by the UN. The World Trade Organisation discussed the Role of Regional Trade Agreements in the International Trading System and the future of the Doha Development Plan with respect to providing agricultural subsidies. The International Atomic Energy Agency, a technical advisory committee of the United Nations, debated the pros and cons of establishing a Nuclear Weapons Free Zone in the Middle East and suggested measures for strengthening the Illicit Trafficking Database. The United Nations Security Council was

a crisis committee with the theme of weapons proliferation. DelTech MUN 2013 also saw a rare council of the Indian cabinet which contemplated and examined the counter insurgency measures to be taken by the Indian Government, and proposed methods to be adopted in order to meet India's ever increasing energy requirements.

DelTech MUN 2013 tasted grand success, with each council hosting tremendously pertinent discussions on its respective agendas. Delegates, ably moderated by the seasoned members of the Executive Board, proposed highly potent solutions to the crises currently jeopardizing world peace and order, thus reaffirming our university's long standing belief that students, given an opportunity, are capable of assuming the role of change-makers of the society.

First DTU Marathon organized

"The human race has one really effective weapon, and that is laughter."
Mark Twain

Our university witnessed its first marathon on February 2013. Around 500 male and 200 female participants flocked through the campus in minimum time. The marathon was unpredictable and rendered an exciting way to discover the beautiful campus. The provision of a free shirt allured the participants towards the race. Consistency was the key to the first spot. **Pankaj Patel**, 3rd Year, EE won the race; he is a professional athlete

and has won the 1 km race in IIT Kanpur as well. He received the first prize, honored by Honorable Vice Chancellor's spouse along with a Gold medal. There were separate races for females and males. There were two different tracks announced to decide upon the true "runner".

The race involved a lot of twists and turns. Refreshments were also provided for the participants. The race boasted of a good security

system both at the time of the race and during the dispatch of refreshment kits. Some people tried to cheat, but it was made sure by the organizers that only the deserving ones win the battle. A total of 5 winners were announced, who were awarded with certificates, trophies and medals. It was a treasured experience for those who tried their luck in the marathon. This event is surely going to get bigger and better in the future.

Cricket Team wins laurel at IIT Jodhpur

DTU CRICKET Team has yet again brought laurels to the college and ensured a stiff competition to rival teams. Their perspiration during the practice sessions paid them off when they stood as clear winners in their tour to IIT Jodhpur. They had a comprehensive win against LNMIT, IIT Rajasthan, SRM and many more. Great determination was showcased by a few players (Abhinav Jain) who played

even when they were down with fever. After an awesome display of all round performance, the DTU cricket team returned to Delhi but had to leave for Bhubaneswar the very same day for a high profile premier league. With many match win-

ning seniors resting to give the reserve a chance, it was a great challenge for the team to battle through the tournament.

As fortune favors the brave, the team played as champions and won a cheque of **Rs 1 lakh** at the SPL 2013, Bhubaneswar. Though they lost the semi finals to LPU by 29 runs, their display of amalgam of consistency, diligence and dedication is highly appreciable. The team hopes to carry the momentum ahead for future tournaments

Silver and *Gold Medals* for badminton teams at IIT Jodhpur

Silver and Gold Medals for badminton teams at IIT Jodhpur
The university's badminton team won accolades at Varchas'13, the annual sports fest of IIT Jodhpur with the boys' team bagging the Gold Medal and the girls' team bagging the Silver Medal.

The event had an interesting start for the girls as they got a walk over from the girls of Sharda University and cruised into the next round without even picking up the racquets. But then they smothered their rivals like IIT Jodhpur and MITS and made their way into the finals very easily under the captaincy of **Ishaani Mittal**.

The interesting scores of Ishaani against BITS in finals for singles' were 21-12 21-02. Ishaani was exuberant on winning but saddened at the same time on the prospect of losing the fourth years for the next year. She thought that the tournament couldn't have been a bigger success

even though there were some weak points to be strengthened.

The boys' team also had an easy tournament, made easy by the expertise of the players. Nikhil Mittal and boys defeated LNMIIT, IIT Jodhpur, the hosts and BITS Pilani to stand highest on the winners' stand. An adios by the badminton team to their captain.

Bronze Medal in Basketball at IIT Jodhpur

The girls' basketball team under the leadership of Ms. Shreya Sharma won the bronze medal at Varchas'13 after defeating JIET in the 3rd place match. Unlucky in the semi-finals where they lost 25-28 to MIT, they bounced back in the third place decider comfortably winning it 27-13. Despite coming to the tournament without much practice, the team slowly got into the groove and won over the crowd with their play. Team members Shreya Sharma, Suruchi Jain, Priti Kerketta, Namrata Yadav, Ishita Saxena and Sonali Dev all played brilliantly throughout the tournament.

Bronze Medal in Football at IIT Jodhpur

Continuing with their amazing performances on field, our university's boys' football team won accolades for their bronze medal winning performances. The team was unlucky to lose their semi-finals match to eventual winners Sharda University 4-3 on penalties after drawing 1-1 at full time in a thrilling encounter. Captain Aditya Raina, Amit Kumar and Tenzin all scored in the 3-1 rout of NLU, Jodhpur in the third place match. Overall the tournament was a combined team effort with even the defenders Kaushik and Hardik getting a goal apiece in initial stages.

Bronze Medal in Athletics at IIT Jodhpur

Ace runner Pankaj Patel , arguably the best long distance runner in the University carried on his brilliant form to IIT Jodhpur winning silver in 1500 meters and bronze in 800 meters. Facing strong competition from the home team and the other competing teams, he nevertheless displayed steely spirit to win the medals. He had also previously won bronze for 5000 m at IIT Kanpur last year. Also, Akash Chauhan, who is also in the football team won bronze medal in high jump with a height of 150 cm. Sachin Sourabh, despite having the same height lost out on the third place due to more fouls.

Silver Medal in Table Tennis at IIT Jodhpur

The boys' table tennis team put on a show of gumption and strength en route to their silver medal at IIT Jodhpur. With players from other teams cheering on the sidelines, the team, comprising Abhishek Sharma, Rishabh Tooteja, Akash Batra and Shaswat Roy played stupendously to reach the finals before unfortunately losing 2-3 overall. Earlier, they had crushed the NLU, Jodhpur team in the semi-finals.

22 VANTAGE POINT

CONFESSIONS OF A CHOPPER-HOLIC

- Aradhana Gahlaut ,1st Year,ENE

Our government cannot ensure the safety of women in India. We know; the government knows; the female population knows; heck, even the rapists know. But not to worry, our honourable old men have better ideas in store. They will strive to make up for all this by ensuring the protection of VVIPS in mid-air. Whoo hoo! At least someone's being protected! Someone who always has a set of armed soldiers at his side. Someone whose residence is virtually impregnable. Someone who breathes sterilised air (who knows?).

But we mustn't be choosy now, must we? We must look at the brighter side. Even if it costs way more than those VVIPs are worth, there is so much that the Agusta Westland 101 has to offer; so many obvious advantages.

The chopper deal shows how things are looking up for the Indian economy. We're treading where even the richest country in the world dares not. We can splurge on something even Obama finds exorbitant. Aren't we the coolest?

Also, there's good news for International Relations: the money laundering trail follows through some big countries...Italy, Britain etc . All relations are good relations! We took bribes together! We have something in common! And of course, how could we refuse a deal with an Italian company? They're practically family; our association goes way back. Isn't that right, Mrs. G?

Those choppers are just indispensable. It sends shivers down one's spine to even think of how we've been living without them all this while; to think of the potential threats. We've been putting the security of our VVIPs at stake for so long! It's high time they got the importance they deserve. And yes, of course, their security is more important than a square meal for the slum-dwellers of our country. These guys are the ones who make this nation. In fact, maybe even the ghost of Bofors can ride along with the top brass of the country, just for extra protection!

The chopper has got the technical prowess to deploy chaffes and flares which can fool and misguide even an incoming missile. I only hope it is deceptive enough to do the same to the masses, the aam aadmi. So what if he can't afford a bicycle? We have Agusta Westland 101!

THE POWER OF RESULT RUMOURS!

- Namrata Yadav, 2nd year, EE

Rumours can give you sleepless nights, rumours can keep you on the edge, and when they are about exam results, they can give you a heart attack. During Engifest, when people couldn't get in the auditorium due to overcrowding, a friend of mine said, "Let's start a rumour that results are out and the place will get deserted in a minute!" That's the power of result rumours. For those who have studied throughout the year, it's the fear of getting 79.99% instead of 80.01%; for those who didn't study, it's a question of whether they can finally sell their last semester books to Future Point or will they have to bury their dignity and start interacting with the juniors, their tutors for the next time.

So to all the toppers out there don't throw away your notes, they are priceless and now they have a brand value. And if you're still not sure if you'll get a placement, just open your own photocopy shop near the college. It's the most lucrative business around. After Gramin Seva that is.

If you want to find out how socially connected you are, stop counting your Facebook friends or Twitter followers, just message a couple of people that results are out, sit back and watch as your 1 free SMS or 1 Whatsapp message or 1 Facebook group post wreaks havoc around the college!

TECHFEST : A BATTLE OF THE T-SHIRTS

- Namrata Yadav, 2nd year, EE

Grey, white or black? Plain or collared? So which t-shirt are you? Don't have a t-shirt; poor you (literally)!"

That about sums up the three days of Tech fest with the entire college reduced to the t-shirts they wore of their societies. People whining about how their T looked so horrible, those in the 'richer' societies with their smug expressions clearly telling how glad they were to be in the 'IT' crowd, others who still hadn't received their Ts and felt like unpaid labourers, all the while wishing to get upgraded to the mother of all rewards- that coveted Council Sweatshirt!

With your t-shirt, comes the MechC coupons. *"What, your society gave you only Rs 20? Is your T worth just that? How will you ever quench your soul-burning hunger with that? Wait, let ME ask for my Rs100 coupon and we will eat together! Aren't we so rich?"*

Bring a microphone in the picture and our otherwise calm, quiet and non-violent DTUites transform into warriors, ready to defend the honour of their t-shirt. The purpose of the mike is not to announce the events in YOUR fest, it's to drown out the voices of any other lesser mortal who dares to raise a voice to announce about theirs.

"Troika presents Radix..(cut)..Get free goodies at Innova..(cut)..Renaissance presents Anti-Chess where..(cut) Double your money, double your money at Aurora..(cut) Aeon presents.. Phoenix presents..Asymptotes..THROTTLE... TROIKAAAAAAA!" Ok now that I'm done with my announcements, let me put up loud music so nobody will hear anyone else(evil laugh). May the best speakers WIN!

Oh yeah, and there were some people who 'participated' in the events. What, didn't they manage to get any t-shirts? Sighs.

A TERRORIST'S LETTER!

-Kumar Pratik, 3rd year, AE

Hi everyone. Chances are that you've seen me, but never recognized me. I roam amidst you, just a common man, perhaps buying a fruit, or maybe renting an apartment. I may have run into you on a metro or may have been a driving an auto-rickshaw you boarded.

Yes, I am a terrorist, and I have no religion, no party, despite what some in the country may think. I am not an innocent man. Even if I shed tears before a court of law, I still have killed all those people in cold blood. I deserve the pain, do not pity me, for I have brought this upon myself. Yes, I have a family, but so did those hundreds who I brutally killed with my own hands. What right do I have to see my family one last time before I die, when I myself didn't give so many their chance!

Do I feel remorse? I don't know. But, I sure feel pity for you. Because, I was nothing special like they make me out to be. I was no Superman, yet your leaders, they could not protect you from me. They dined nonchalantly as so many bled from my inflicted wounds. They consoled and offered condolences to the victims on camera, some may even have shed fake tears. But, do not believe their lies. For if it was not for their 'voluntary incompetence', I would never have been able to cause the kind of damage I did.

I just want to ask one thing from you, India. If I am a monster, are they not monsters too? And who's the bigger monster, you decide!

WHY NOT A NIGHT CANTEEN FOR GIRLS TOO?

- Damini Goel, 2nd Year, PIE

Scene 1: An over-stretched team meeting going beyond 8. A quick snack in the Mech-C- Not exactly my idea of dinner. Exhausted, I trudge to my room, flinging my bag on the bed and sitting down for a moment of rest and peace. Come 9, and my entourage of flat-mates burst in. What follows is a night of meaningless chatter and scribbling practical files. By the stroke of the midnight hour, my stomach is growling for something to munch on.

Scene 2: Oye it's Thursday! Running up the mess steps, silently praying to myself, *"Please God, let the food be good. There's nothing to eat back in the room."* a One spoon of the daal and I know I am doomed. Somehow I push half of the quantity on my plate down my throat and run back. I'm sure that come morning, I'd be famished for sure.

Scene 3: Yayee, it's movie marathon tonight! But really, with no popcorn, coke or a few munchies, can movies ever feel the same?

Scene 4: Big night coming up. A birthday party is in the pipeline. Smudged cake on faces, water balloon fights and dance session till dawn, it looks to be a fun night. Streamers- CHECK. Banners- CHECK. Water-balloons- CHECK. Music- CHECK. Speakers- CHECK. Cake- CHECK. Food - 2 packets of chips, 1 cold drink- Simply not enough!

Scene 5: The storm after the festivity: **EXAMS!** Days and nights start merging into one. Looking around, all I see is books, unsolved numericals and incomprehensible concepts. The fear of the impending paper renders me sleepless. How nice would a cup of steaming hot coffee taste at the moment!

Scene 6: A regular day and no activity in the hostel rooms. Early to bed and enjoying a sound naptime. Suddenly, the hunger pangs start disturbing the dreamy state and suddenly I'm up! A bowl of Maggi; that's all I ask for.

Different scenes but all point in the same direction- lack of a night mess in Girls' Hostels. This is an issue about which I'm sure all the female hostellers share common platform. For an engineering student, nocturnal traits come as easily as breathing. We literally burn the midnight oil and girls are no exception to this pattern. Within the same environment, the night canteen is a boon for the boys. A place to satiate your hunger in the dead of the night. Why this discrimination, I ask?

True, with the staggered blocks and the 9pm curfew it's not easy to set up a night mess for the girls. We also understand that safety is of paramount importance and our straying out in the night in search of food is the last thing college authorities would want.

But surely, small vendors can be allowed to set up in each of the hostel

buildings? Another idea is that the SNH mess could be made to function for a longer period of time with deliveries to all hostel blocks. If not these, a hawker system could be thought of, with fixed and periodic visitation timings. The decision is not a simple one and neither is the issue. But all of us would be grateful if some alteration in the current situation is made!

A PARTIALLY WI-FI CAMPUS?

-Prateek Singhal, EEE, 1st Year

When I was looking at the DTU website during my admission process, trying to figure out which college to join, one of the facilities of our college really got me hooked. *"Fully Wi-Fi campus"* was proudly displayed on the college website. Free Internet really stimulates college students, and I am no exception. And just to be sure, I asked my college seniors whether this claim was really true, who assured me earnestly that it was.

So naturally, when I come to the college, my hopes are pretty high. Among other things, I am really excited about checking the speed of the Wi-Fi in our college campus. So just on my first day in class, I am enthralled to discover that my phone can detect the Wi-Fi just outside my classroom! And the speed, while not exactly "blazing fast", is still reasonably good. For someone who is used to working with 2G, this is an amazing improvement. I open the Google homepage and enthusiastically type in "Facebook", hoping to apprise my friends on just how splendid this college was!

This is where the fairytale ends. Instead of getting redirected to the blue themed site I'm so used to seeing, I'm staring at a notice on my phone, which proudly reads,

"This site has been blocked". Undeterred, I type in a few more keywords in the search bar, and my worst fears are confirmed; almost every site has been blocked! What is the point of free Internet if you can't access almost any site?

Talking to my hosteller friends, I am told of the way around this problem. Thinking as only an engineer could, they have overcome the problem of blocked sites by using a proxy server. However, before I could get my hopes up again I was once again confronted with the grim reality; the Wi-Fi as well as the LAN ports were erratic, the net speed was fluctuating, and the proxy server was really too cumbersome for frequent use.

This prompted a string of unanswered questions in my mind- what is point of having a net facility in college when the browsing sessions have to be restrictive? Granted, we can use the internet services other that Wikipedia in order to answer our queries. Yet, it all seems kind of pointless to me. Although places like Knowledge Park and Computer Centre offer a little more freedom, these have their shortcomings as well. There is no proper net facility in late hours; maybe that's why stu-
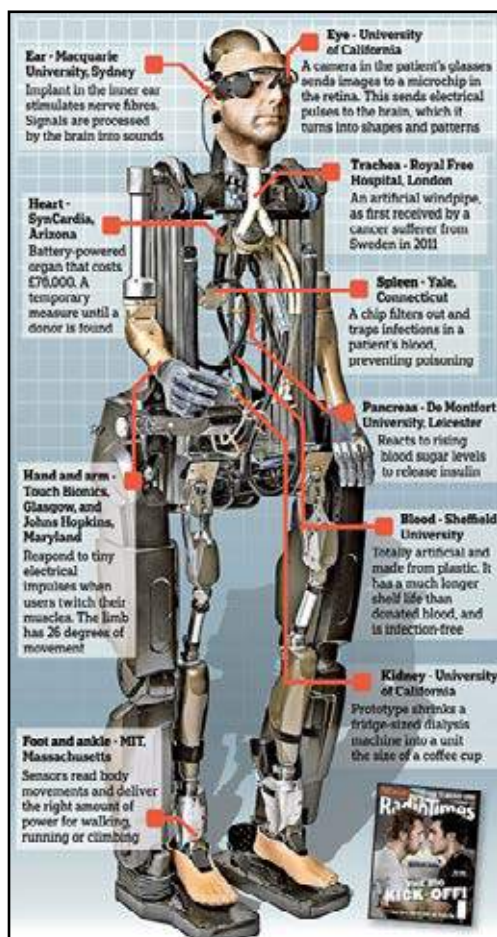

dents prefer net cards and USB dongles to fulfil their requirements. This problem, although not the most urgent one, will certainly make a student's life much more enjoyable if rectified.

Girls, especially, will benefit from this as their 9 pm restriction hampers the chance of any night-time research or entertainment. A little leniency from the administrative authorities would surely be welcome with open arms. Internet is a fun way to relax, and students working long hours on their projects need a little respite from work. All in all, a somewhat working infrastructure is already in place, we just need to fine tune it and reduce the restrictions and then our college can truly have a "fully Wi-Fi campus"!

24 EUREKA

NEW, INTERESTING DEVELOPMENTS IN SCIENCE AND TECHNOLOGY

-By Damini Goel, 2nd Year, PIE and Arihant Kuba, 1st Year, ME

Imagine going back to the primitive ages. Stone tools in hand, trudging along thick foliage, hoping to find a hospitable site for temporary settlement. The very thought sends shivers down the spine. Mankind has progressed exponentially. From woody and stone houses to concrete and steel structures, from bulky room sized computing units to the very comfortable I-pad Mini, from herbs and plant leaves as medicines to chemical compounds in the medicinal tablets, from the four legged beast of burden as means of transportation to the sprawling limousines, from crude stone tools to diamond tipped tools.

From Postcards and telegrams paving way for electronic mail or the more popularly used Whatsapp, Sony Walkman to the I-pod, from landlines giving way to mobile phones and dial up internet networks to Wi-Fi...

We hereby bring to you some of the hottest new developments in the fields of science and technology.

1) REX

The need of the future is to bring technology as close to man as possible. Bionic man is our answer to that. REX is an amiable personality. His striking 7-feet stature makes him no-

ticeable in a crowd and warm brown eyes add to his charm. He loves his drinks with friends and is also fond of rap music. In many ways REX is a normal person. Only, housed within a frame of state-of-the-art prosthetic limbs is a functional heart-lung system, complete with artificial blood pumping through a network of pulsating modified-polymer arteries. He has a bionic spleen to clean the blood, and an artificial pancreas to keep his blood sugar on the level. Behind the deep brown irises are a pair of retinal implants, giving him a vista of the crowds of curious humans who meet his gaze.

Transparent Battery

2) Transparent Batteries

Many find their mobile phone batteries to be an eye sore with it being masked behind a black covering. Don't lose heart guys, as transparent batteries may soon be a reality .A mesh-like framework for the battery electrodes, with each "line" in the grid being approximately 35 microns wide has been devised. Light passes through the transparent gaps be-

tween the grid lines; because the individual lines are so thin, the entire mesh work area appears transparent.

3) Invisible Warplanes

It is absolutely essential for warships and warplanes to be invisible from the eyes of the enemy. Some of the earliest but most significant strides towards invisibility involved painting to perfectly match the background colour, use of low-radar reflecting materials and so on. The latest camouflage involves exploiting metamaterials. Metamaterials are tailored to have specific electromagnetic properties not found in nature. In particular, they can bend light around an object, making it appear to an observer as though the waves have passed through empty space.

4) Nanocrystal Solar cells:

Development of solar cells was a major achievement in the attempts to diminish the dependence on conventional forms of energy. Unfortunately, owing to their high cost and low efficiency, they couldn't gather much steam. A potential pathway to cheap, stable solar cells involves making them from nanocrystals, which are so small that they can exist as a liquid ink and be painted or printed onto clear surfaces. The solar nanocrystals are about four nanometers in size -- meaning you could fit more than 250,000,000,000 on the head of a pin -- and float them in a liquid solution. So, like you print a newspaper, you can print solar cells! Liquid nanocrystal solar cells are cheaper to fabricate than available single-crystal silicon wafer solar cells and have been successfully been able to conduct electricity.
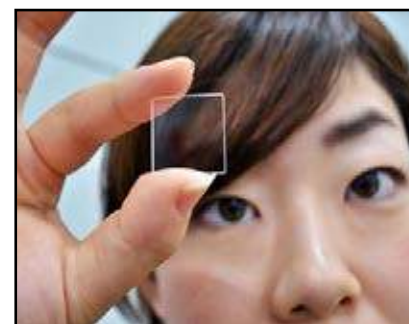
5) Bullets to Solve Crime:

Using shells to solve crimes is hard, useful fingerprints are rare and the heat of the shot can destroy DNA. A team of nanomaterial scientists has developed a bullet that captures the DNA of anyone who touches it – and leaves a trace of the person, too.

6) Ferrotec's Ferrofluid:

Ferro-fluid or magnetic fluid, was originally developed by NASA in an effort to create a magnetic rocket fuel. Though the research was abandoned at that end, the liquid still has many useful properties and applications. SONY is currently using this technology to create better speakers. They claim this cuts energy consumption by 35% and also offers better sound quality.

7) Glass Hard Drive:

Hitachi engineers have developed a method to store data infinitely on glass. A femtosecond leaser carves data as code – 40MB (Mega Bytes) for every square inch – into heat and water resistant quartz glass. A programed optical microscope is used to decode the data. At this stage, this technology is ideal for government use, but in time the consumer version can be available too.

8) Project Glass:

This is the name given to the project by Google for the development for an augmented reality head mount display (HMD). (For those who do not know Augmented reality (AR) is a live, direct or indirect, view of a physical, real-world environment with elements of computer generated objects incorporated in the real world.) This is basically a fancy name for smart glasses. These glasses would display information like a smartphone and they will be operable via voice commends, something like the inside of Ironman's helmet. Once released, they would run Google's Android operating system. They are planned for a late 2013 or an early 2014 release.

The only thing constant in life is change. What's hot today will lose its charm tomorrow. Technological enhancements have been rocking human life since ages and will continue to do so. Stay tuned to this space for more on this subject.

In Love With My Network ...

-Madhurima Baral, 3rd Year, PSCT

The following article is a work of utter fiction. Any resemblance to any networking or dead is purely coincidental!

As the telecom sector gets all crowded with a host of telecom service providers, there is always something special about having the oldest and the "*correct*" connection, NTNL. READ ON.
I have always felt: every single choice that we make has its own set of repercussions. With such a thought process, steering the course of action has never been a cakewalk for me. So when I decided to have a telecom operator for my first mobile phone ever, I was surprised to learn about one such firm that firmly stated that if I have their service, I am right. (*NTNL hai toh sahi hai, you see!*) Taking a deep sigh of relief, I finally had my Eureka moment as I found a telecom firm that endorsed my decision to choose their services over the others; so very thoughtful of them. Six years later, at present, I "*thank*" my stars for having chosen the right telecom operator that doesn't need dogs chasing people to facilitate connectivity or openly addressing people as being their HONEYBUNNY, for that matter. My telecom service provider has the **unmatched connectivity.**

Literally! They provide frail (read: no) connectivity in underground, metros, elevators and hell no, absolutely NONE on level grounds. Don't get me wrong, their unfathomable strategy does have much depth to start with! As I try to dive deep down in order to unravel this mystery, I find myself pointing my phone in almost every possible direction and angles to get that vertical bar of "strength" on my phone. A glance on people around me showcases all smiling faces with some feeble laughter resonating every then and now. Those happy faces seem to be a testimony of my righteous decision to stick with NTNL; after all I was one of the few blessed souls to be enrolled in some *Jeevan Saathi* plan!

While everyone is busy promulgating the message of **Love Thy Neighbour**, I happen to be a proud subscriber of a firm that brings to life this phrase by openly embracing the Chinese notion of quality. Their internet services may not work usually but once they do; everyone is caught off guard and left awestruck to the core.

Often there are those moments when in the middle of a conversation, you are just about to make a valid point. At that very moment, my telecom operator seems to "*award*" me with a pause time. Judgment call, you know. Although others may try to dismiss it by referring to it as a technical glitch, connection error etc.; but seeing through the whole idea I have come to terms with the fact that this is no less than Sudarshan Kriya, when it comes to warding off my anger. However, I must admit this realization came only after I was choking with overwhelming emotions while blessing my operator with all sorts of "*glorifying*" words. Getting to the best part, my cellular service provider has apparently the **best customer care operators** in the world as getting through them is no less than getting admitted into a military academy. My worthiness of getting to talk to them is evaluated by my ability to hear soft instrumentals running for what seems like eternity, my decisiveness of not getting swayed by emotions every time I am told "*Your call is important to us. Please be on line*" and the fiercest stage that runs a chill down my spine is the apparent assessment of my ability to press numbers in a bizarre fashion (1 for Hindi, 2 for English followed by again 1 for Dull-fin, 2 for Grump, with no room for improvisation!) till my keypad goes all berserk or even worse with the lady on the phone saying the three most dreadful word, Invalid Digit Pressed, that bars me from making the cut and having the coveted opportunity to discuss my network issues with the customer care operators. Each time that happens, I end up reverberating "*just missed*"! Anyhow, thanks to their typing test, or whatever that is, I have finally got accustomed to the keypad of my new apparently "*smart phone*". How else would I have managed to type otherwise?

With my profound love for NTNL overflowing ceaselessly, I just realized my phone has become devoid of the last bar of connectivity it had; may be now is the right time I start carrying a portable antenna along or maybe not use the phone at all. Shhhh…let's just pretend that you didn't know about the '*I couldn't part*'. No don't take it otherwise. I will do anything and everything that it takes to stick to my NTNL account. After all, the look on people's face when they hear the first four digits of my phone number is priceless. So much for the right decision, huh!

SYNAPSE - THE FUTURE

-Arihant Kuba, 1st Year, ME

The first thing that comes to mind when one talks about artificial intelligence is Skynet or HAL and a whole degree of science fiction movies. We all brush it aside as a piece of science fiction never to be realized as a reality. However back in real life persistent endeavours are at pace to instill intelligence in the inanimate.
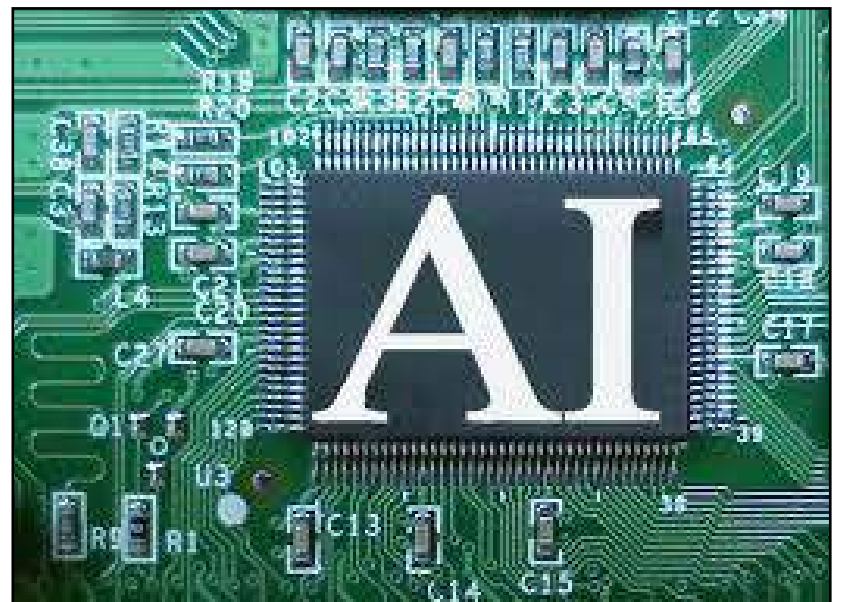
SyNAPSE is a backronym standing for **Systems of Neuromorphic Adaptive Plastic Scalable Electronics**. The project has been initiated by **DARPA** (Defense Research Project Agency) and pursues to develop computer systems that can mimic the human brain to the biological level, i.e. build a computer core in the image of the brain. HRL Laboratories, HP and IBM Research are at the forefront in the implementation of this program. SyNAPSE which began in 2008 and is scheduled to continue till 2016 has till now received $102.6 million in funding.

The program consists of two core parts. The functioning and algorithms of the human brain are analyzed which is done by biologists at CELEST (Center for Excellence of Learning in Education Science and Technology).The latter constitutes the first step. This is followed by the building of the mirror image so obtained in a computer brain. The project has brought forward two interesting results, the digital neurosynaptic core and the cat scale brain simulation.

This is a first step towards building a core with 100 trillion synapses. The current core has neurons arranged in a 16x16 array. Each neuron is connected to the others via 1024 synapses making a total of 2, 62,144 synapses for each core.

So what does this mean for all of us? Well I would not get my hopes up is a rush, the project has shown some real success and could very well end up mimicking the human brain, yet its marketability is unknown. It has correctly been said that "*Technology waits for no one*".

TEN THINGS YOU SHOULD NOT DO A DAY BEFORE THE EXAMS!

1. Don't play Counter Strike, Age of Empires or FIFA!

On the day before the exam, you will always be presented with the urge to play '*just one more game*'. You may even think, '*After this game, I will be mentally fresh and can concentrate better on studies*'. But, it will only drain you of whatever energy you have, and there is no such thing as '*just one more game*'.

2. Don't be slow and steady!

They do not win the race anymore, be fast and superficial: Remember, your objective is to pass the exam, not to deliver a lecture on the subject. Often, you may realize the day before the exam that the chapters are not quite as boring as you thought. So, you might start appreciating the derivations, the diagrams, everything! Don't! Because, it will reduce your speed drastically, and you will never be able to finish everything on time.

3. Don't let your friends (or foes) maneuver you:

'*Kya, tune abhi tak ye nahi padha? Kab padhega? Nahi ho paega time pe!*' If you've heard something of this sort before, chances are that you've met them before. They-Who-Must-Not-Be-Named a.k.a. *The Ghissus*. Their distinguishing feature? They will try to demotivate you to try and score more than you. As if our scoring less would somehow boost their numbers! For people who score a lot, they are pretty dumb, aren't they?

4. Don't think about that elusive mythical figure of 35:

In mid-sems, I got 10, in internals I should get around 6-7. So, I need to score 18 in the paper to pass. 18 means two right questions of 7 marks each and a couple of random questions here and there. Sounds good, doesn't it? Yes? NO! As Michelangelo put it, the greater danger for most of us is not that we aim too high and fail to reach it, but that we aim too low and reach it. So, one wrong question and you're out. Aim high!

5. Don't ever, I repeat, ever have a break-up a day before the exam:

You will end up reading Thermodynamics' questions as '*Why do you think you screwed up? Discuss.*' or '*Who the hell does she think she is? Queen Elizabeth? Elaborate.*' But, it's not in your hands to have or not have a break-up, right? So, what do you do? Don't pick up the phone! Go offline. GO AWOL!

6. Don't let the creativity out:

Creativity is at its pinnacle on the day before the exams. You might want to start with a blog, most commonly to ridicule education and the system. Or, you might want to shoot a short film or a documentary. But, the worst of all, you would like to whine about the imminent exams on your Facebook page with creative status updates.

7. Don't hang out with friends asking each other, 'Ye exams kyun hote hain?'

The days leading up to the exams can be very hard on us. And so, we start to dwell on the 'logic behind exams' and how they are utterly redundant. Even if you manage to convince one another that the exams are a hokum, it wouldn't change the fact that you still have to give one tomorrow. So, be smart and use that time to study instead. Also, stay away from friends, who pop up with crazy ideas, such as – Let's crash a party, Let's go to a disc, Let's play rugby etc.

8. Don't hurl expletives when you can't understand a formula, or when you are running short on time:

Yes, it might give you a medium to vent out your frustration. You may even feel very good after yelling profanity for a couple of minutes (*like Virus from Pyaar ka Punchnama*), but in the end, you will be back to square one – at the same formula with even lesser time now! Besides, it might develop into a habit, so that when you come across the same formula in the exam, you will remember nothing but the expletives you used the other day!

9. Don't pull an all-nighter, not without Tzinga at least:

I have lots of time, the entire night in fact. I should chill out for a bit, and then I will complete everything from one to six in the morning. Doesn't work like that. Concentration levels start to fade, the text in the books starts appearing hazy and mind starts to go into a vortex. Don't forget to stock lots of Tzinga if you are hell-bent on pulling an all-nighter.

10. Don't read this article:

If you are reading this, and you have an exam tomorrow, stop now. Because, you will have already done most if not all of the pointers given to you above. If not, go ahead, you still have time. An exam is no fun if you haven't tried these before!

-Kumar Pratik, 3rd Year, AE

RELIGION

Religon. It intrigued me since ... Hmm, I can't even remember anymore. Amongst the conflicts and wars, which have taken place, the largest proportion has been over religious differences. Religious conspiracies are an all time favourite of thriller fiction. Writers like Dan Brown, Alan Folsom and others have created spine tingling thriller stories revolving around religious conspiracy theories. Dan Brown, in particular, can create marvels. His novels, especially The Da Vinci Code and Angels & Demons, blurred the boundaries between science, art and religion.But then probably, these 3 were not very different to begin with. Some of the greatest minds of all time were people of faith. Many great artists, architects and creative geniuses have been keen students of religion too which is evident from their work. They have left many references in their works, some obvious and others not so palpable which back my claim.

Now you can find many more similar examples and incidences in these scriptures. This really makes your mind turn, right? I mean, how people who existed centuries back could have even imagined these kinds of things! While some questions probably can't be answered right now, we can safely assume that these religious scriptures are merely not a collection of abstract stories. They are rooted in logic, and they pave way for the future. Maybe that was what different religions were created for. As a way to understand nature, to understand life itself. But over the centuries, these religions have distorted into something else entirely- an unexplained way of life, a collection of mythological tales, an assortment of idols to which we pray every morning, not even realizing that they are just symbols which characterize different traits in humans!

Science and religion have existed together long before the idea of either was actually conceived. No one can tell when religion came into existence; the same is true of science. Maybe their definition has evolved over time, but science, religion and art have been imbibed in every grain since the inception of man. Even though many a great scientists & philosophers have been exiled or murdered in the name of religion, there are many incidences where our religious scriptures have been in consistency with science!

Science is n o t the only thing hidden in these scriptures. Reading through these fabled tales, you'll see the logic embedded in them. Take the simple example. Lord Shiva, the legendary god, has a snake as his ride. One of his sons, our dearest Ganesha, has a mouse as a means of transport (don't laugh please, I'm not making this up, it's all written in the scriptures). Now his other son, the less famous Kartikeya, rides a peacock. The astute reader must've already figured out by now- mouse, snake, and peacock. Oh my God! It's a food chain!

Let's not venture too far from home; let's just focus on the Hindu scriptures for the time being. Now we might have heard a lot of stories in the Hindu mythology, particularly the Ramayana and Mahabharata. Now at first glance, we might dismiss them as stories, but on closer inspection, we see some really mind boggling revelations! Consider the Ramayana. We all know about Ravana. Yeah, he's the guy with the 10 heads. Fewer among us know about his "*Pushpak Vimana*"- a vehicle made from flowers that could fly. Now looking past the strange name and the fact that it was made from flowers, it's a vehicle, which could FLY! And all this was recorded in scriptures that date back to I can't even remember when!

A similar case is mentioned in the Mahabharta. There was this guy, Samjay (my mom told me his name, my knowledge of Hindu mythology is passable at best), who recited the whole battle of Mahabharata, which was happening so many miles away. Now maybe you might differ, but this sounds a lot to me like LIVE television. And these scriptures are centuries old. Astounded? Join the club! Maybe the saying "history repeats itself" has a more literal meaning than we realised!

- Prateek Singhal, 1st Year, EEE

Disclaimer: The views expressed are that of the author only.

Comic Con 2013

-Arihant Kuba, 1st Year, ME

Comics are just for Kids. Any normal human being should outgrow them after a certain age. I believe all this is babble invented by some wise man. Wikipedia may define comics as a medium of expression in which images, often incorporating text, convey information such as narration. But to a fan, comics are nothing but pure thrill and excitement.
Comic Con 2013, took place in Dilli Haat, New Delhi from 8th to 10th February. It was a small but much anticipated event. The event catered to both comic aficionados' and connoisseurs' some who had even travelled days to be here. Both **DC comics** and **Marvel comics** were present in strength but our own indigenous comic **Amar Chitra Katha** wasn't left behind at all.
Moreover the Comic Con also provided many a new cartoonists' to display their creations which were well received by the public. Another integral part of the Comic Con was the Cosplay competition (dressing up as famous comic characters) which had a grand prize of a ticket to the Middle East Comic Con. Children as young as 12 years old came dressed up as some of their favourite characters and it seemed as if the comic world had come to life. The thrill and excitement was something which I will cherish for time to come, that is until the next Comic Con!

28 QUILL STROKES

The Oxymoron Anomaly

-Saurabh Siddhartha, 1st Year, CE

Oxymorons have always fascinated me ever since I read about them in 3rd standard. There was something about an Oxymoron that sets it apart from all other 'Figures' of Speech'. For starters, *Oxymorons are a figure of speech in which apparent contradictory terms appear in conjugation.* Ever heard about the movie '*True Lies*'? Or "*Definitely Maybe*"? These movie titles are nothing but oxymorons.

The first oxymoron that I was introduced to was '*horribly good*'. It can be used to define something beyond the accepted measure of good. And yes, it can definitely be used to confuse a person. Being the irrational person I am, I wasted no time in experimenting with this new addition to my vocabulary. A couple of years back, I complimented a friend by conveying to her that she looked '*horribly good*' in one particular picture. She was half confused if I had actually complimented her or called her horrible! So that will be my advice to you all – never call a girl '*horribly good*'. Your attempt at humour will fail miserably and any chance you have with the girl will disappear in thin air. The same goes for '*terribly pleased*' and '*pretty ugly*'. Be very careful before using these! They can land you in awkward situations. We all use oxymorons in our daily lives without actually realising that we have done so. So, here I've compiled a list of situations based on my observations where oxymorons are used involuntarily:

- Have you ever been scolded by a teacher for making an 'unnecessary mistake'? Like some mistakes were necessary and had to be made!
- The other day I was watching the news, where they reported that a person was 'found missing'. If he has been found, how's he missing?
- Last week, a friend found my joke 'seriously funny'. I've heard of satire, but 'seriously funny'? That's like a whole new category of funny!
- Even the geeks have their own weird sense of humour. Otherwise, what explains the logic behind the name – 'Advanced BASIC'? Or 'Microsoft Work's'? (No Offence!)
- Teenagers love the phrase 'Doing Nothing'. But if you think about it for a second, if you are doing nothing, that is one thing you are doing, and that means that you are not doing nothing! Confused?
- I was in a play once, where I was told by my instructor to 'Act Naturally'. Now I was a novice at that time but I was sure that 'Acting Naturally' was not a phenomenon back then.
- Has anyone ever given you an 'only choice' that you couldn't refuse? Choice itself means choosing from a variety of options!
- It's the valentine's week and couples love to be 'alone together'. I'm still trying to figure out how that works.

THOUGHT CAPSULE:

Self refinement in all respects with Word, Work and Will is the best tool to change the Society.

Satya Prakash Dash
Examination Branch

ENGLISH VINGLISH

-Anshul Rawat, 2nd Year, CSE

English has become an integral part of our lives. From the "A, B, C, D..." taught in kindergarten to the mind-boggling lectures delivered by college professors, the language is all over the place. It has suddenly developed into a monopoly in the field of communication. These days, being fluent in English is deemed as a prerequisite for being intellectual.

Speaking in Hindi draws flak and ridicule from all corners. Such is the case that conversing in Hindi deems a person to be inferior amongst the strata of society. Furthermore, one can see numerous institutes offering English-speaking courses to enhance one's vocabulary and spoken English. This scenario continues to exist despite the fact that Hindi is our mother tongue and deserves to be encouraged.

The Japanese hold their culture and language close to their heart. Despite the influx of modern technology and globalisation they have pursued to maintain their cultural integrity. However it is distressing to learn that many of our fellow Indians display no linguistic patriotism. Moreover, people avoid speaking in Hindi and switch to English just because the society deems the latter as more sophisticated.

The decades of ruthless British rule played an important part in the establishment of such a mindset. The modern Indian youth tends to glorify all that is foreign and has rejected our rich cultural heritage. Today, we can be seen drifting away from our identity. No longer is the average Indian teenager interested in Indian literature or music, but displays a huge interest in English movies, music and Sitcoms.

I think it is high time that we introspect and start paying more respect to our culture. The need of the hour is to maintain a balance between the trends of the modern world and our heritage which we have received from our forefathers.

BEHIND DOORS

-Shashank Sharma, 4th Year, EP

HE STOOD IN FRONT OF A DOOR.
A DOOR.
THE DOOR.

He stood in front of the door, but he had yet to ring the bell. He hadn't rung the bell yet because he was afraid. Afraid that the person who emerged from behind the door would reject him, would shut the door on him.

The inch thick wood door was all that separated him from what lay behind, but it was more than any gap he could ever bridge. Inside was another world, where he could either belong or not. And it all depended on the whims of the person who opened the door, and how his greeting fared with that person.

He was nervous, tired. He could feel the sweat pouring down his face. He carefully dabbed at it with his handkerchief. First impressions and all that jazz, it had to be right.

He stood there clutching at the heavy bag, the strap biting into his shoulder. He still wasn't ready to ring the bell.

He clutched at the collar of his shirt, suddenly feeling hot under the collar. It was a hot summer day, and he could do with a glass of water. He pictured the cool glass of water inside, the cool splash it made as the water sloshed inside. His throat was dry, he suddenly felt the back of his shirt clinging to his back because of the sweat. He looked up at the merciless sun beating down, felt the hot breeze blow through the empty streets.

He rang the bell. And waited.

A lady answered the door, he hesitated. She looked at him piercingly, she seemed to be half asleep. The words seemed to be stuck somewhere in his throat, his eyes almost pleading for what he couldn't muster the courage to utter.

She leaned on the door frame, her icy stare sending a chill up his spine. She crossed her arms in front of her chest and he clutched his collar tighter.

He suddenly remembered the glass of water inside, imagined the sound of water splashing somewhere inside the house, just within reach. He broke into a hesitant smile and utters the short phrase, " Good afternoon ma'am, I have an offer for you today to buy..."

The door was closed. A word, an abuse, lingering through the air still. He looked at the door, the world on the other side had been closed to him forevermore.

He sighed, and looked down the street. More doors. All waiting in line to be knocked. Suddenly he felt the urge to throw his bag away, to leave it all behind, to get a glass of water. Instead he clutched his collar tighter, adjusted the strap cutting into his shoulder and moved on.

TRICKS OF THE TRADE

-Miteshwar Singh,3rd Year,EE

The Consumer is King. Whatever we might demand or desire will come running to us on a silver platter and that too with a complimentary dessert. "*I wish to buy a new pair of shoes, so a huge Sale comes up*". The Indian consumer always gets the cheapest goods. What if I were to tell you that this is a big fat lie?

On a leisurely stroll through any uptown mall we are often greeted with hoardings depicting sales which run from 50% to 70%. Suddenly we find ourselves experiencing a magnetic pull and ergo our wallet finds itself a little lighter. We bask under the false illusion that we have got a great bargain oblivious to the fact that we just got robbed. The astonishing fact however is that we did not even feel this robbery. The so called MBAs', wizards of the marketing world have spruced up commodities in such a sense that a pair of jeans has a minimum worth of Rs. 3000. A discount of 50% makes the adrenaline rush through our veins and we feel delighted in owning a pair of Levi's jeans for a meagre 1500 rupees. However what fails to strike the naive customer is that the true cost is only about Rs 100. He just got robbed and there is no Police station there to register the FIR.

One more interesting notion prevailing in the market these days is the year round sale. Be it January or July there always seems to be a 70% sale going on at stores such as Cantabil, Koutons etc. If such a sale is to always exist why can't they just keep their listed prices at a lower level? Intriguing as this might be the truth of the matter is that if they did so you wouldn't be walking through their doors every now and then. Products don't sell anymore, Discounts do.

A trick is only usable till the time its secret remains intact. As the beans are spilled the truth starts to emerge. The Consumer is not the King. He is just the mindless remote controlled robot devoid of knowledge.

30   CHEEKY CORNER

SCRIPT A HIT BOLLYWOOD MUSIC VIDEO

-By Prateek Singhal, 1st Year, EEE

1. Listen to a nice foreign artist/band. Contemplate how their music can be "Indianised" i.e. made to sound border-line vulgar.

2. If the location is a club or a hotel ballroom, harmonium is mandatory. On the other hand for a village location guitar is a must.

3. Never miss out on a large number of background dancers and extras dressed in funny outfits.

4. A fat guy doing funny dance steps is an absolute must. Every drop of comedy must be extracted.

5. Slow motion and 360o camera rotation is compulsory. If the song doesn't feature either, it's simply not Bollywood!!

6. If you have money to splurge, get a guest celebrity to do a small jig in the song! The more the merrier!

BE A '*KEWL DUDE*' IN COLLEGE

-Isha Gupta, 2nd Year, EE

Make sure you are always clean. A guy who reeks of sweat and never brushes his teeth is never considered cool. Shower every day, wash your hair regularly and dress appropriately.

Play it cool. Looks are important, but not as much as being who you are. You have to be the real deal and be proud of it. Be less concerned with what others think and more with having fun, being social, and doing what you want to do.

Don't be fooled by the movies. Cool guys don't pose in the parking lot on their motorcycles until they're surrounded by women. Call up people, make plans, take risks, and make friends that you can trust and respect.

Making someone smile is cool and attractive to women. A guy with good sense of humor is very cool. Do not tell dumb cliché jokes. Be witty.

Be confident. You could be amazingly good looking, but no one will notice you if you speak timidly or have slouched posture or don't speak at all. Hold your head up and look everyone in the eye. Work on your self-esteem and get rid of your insecurities. You will not gain respect from others until you respect yourself.

Have an open mind. Do not be afraid to think outside of the box and try something new. Be spontaneous and open. Do not be afraid to stand up for what you believe in and to do what is right. Everyone has different opinions so respect other people's differences too. Cool guys don't put other people down to feel better about themselves.

Show an interest in others. Who wants to hear someone talk about himself all the time? Find out what your friends' interests and talk to them about it. This will earn you a reputation of a caring and considerate person. When you speak, keep your pitch in control and show that you value your words. You should also know when to let other people take the centre stage.

You do not need to read several newspapers every day or own a library for that matter, but a basic understanding and awareness will give you a reputation of being smart and knowledgeable. Moreover, someone who is well read always comes across as smart and so, attractive.

Have a cool style. Do not dress as you have just come out of bed. Your style should make you stand out, (without going over the top). Even simple apparels like t-shirts and jeans are fine as long as they fit and suit YOU. Try to find the one that plays off your strengths and identity.

Do not smoke. It leads to bad breath, makes your clothes reek, makes others uncomfortable and is unhealthy overall.

Do not hit on every girl you meet. This will leave you with a negative reputation.

Do not get caught up in pettiness or rivalries. The best solution is to ignore this kind of drama and move onto something more worth your time.

Copying other people's style is okay, but only on the path to developing your own personal style.

Joining too many societies is a sign that you are desperate and want to fit in too much. Only join those that you are honestly interested in or related to your branch.

Get good grades. The grades are not a nerd thing. They give you an extra edge.

J U G A A D

-Isha Gupta, 2nd Year, EE

Jugaad!

The word which kick starts our brains and the power that drives all our engineering skills. We all are very familiar with common meaning of this term (Why wouldn't we be? We use it all the time after all). We can call it India's own unique approach to innovation. From using Coke or Pepsi bottles to store water, to building make-shift trucks from water pump engines and parts of bullock carts, Jugaad is every bit installed in us by default.

But did you know that Jugaad is not just an approach that supports only local, short-term solutions? Rather, Jugaad is a global approach to innovation that can bring about significant long term socio-economic impacts.

When recruiting new candidates, HR managers typically scan candidates' resumes for signs of extra "smartness"– as evidenced by high GPA or the eloquence of their CV. Companies need more than just textbook-smart workers to innovate and succeed today. They recruit candidates who are street-smart and can think on their feet.

According to the book, "*Jugaad Innovation: Think Frugal, Be Flexible, Generate Breakthrough Growth*", the most innovative enterprises in emerging markets such as India, China, Brazil and Africa employ "street-smart" workers possessing six specific job skills.

Such "Street-Smart" workers possess:

1) Resilience: Is the candidate able to seek opportunity in adversity? In an increasingly complex and challenging business environment, demonstrating resilience in the face of adversity and turning it to one's advantage is a necessity.

2) Frugality: Can the candidate do more with less? Frugal consumers and cost-effective competitors are pressing companies to develop goods and services that are affordable and eco-friendly.To compete and win in this resource-scarce environment, firms need imaginative employees who can deliver more value using fewer resources.

3) Flexibility: Is the candidate able to think and act flexibly in response to unpredictable outcomes? To thrive in a highly-unpredictable environment, companies need employees who are masters of improvisations.

4) Simplicity: Can the candidate keep things simple without losing sight of complexity? Firms hire R&D engineers who can design "good enough" and user-friendly products rather than over-engineered products that are too complex to use.

5) Empathy and Inclusiveness: Does the candidate have the empathy to include marginal (and marginalized) customers? Customers have unique needs and to serve them requires new products, different marketing strategies and new business models.

6) Passion: Can the candidate follow his heart rather than just his mind? Companies hire "gutsy" employees who follow their hearts as much as their minds. These are empathetic and courageous candidates who have the willingness to take risks, trust their intuition, and are passionate about what they do, believing that they are pursuing a higher cause in the process.

Some may criticize Jugaad and say that it encourages getting around the law or the correct course of action in some cases. That may be true but it is a tool that can be used for good in the right hands and for bad in the wrong ones. The other criticism that is leveled against Jugaad is that it doesn't meet quality needs. There are examples of this happening but it's not intrinsic to Jugaad. In fact, you can implement Jugaad mindset with reasonably high quality standards for consumers.

Take the example of Siemens. It has come up with a fetal heart monitor, which measures the heartbeats of a fetus, relying on expensive ultrasound technology. But using microphone technology dramatically reduced the cost of the product, making it more accessible to a lot more people.

Jugaad is very active in many emerging markets. There are parallel terms for it. Like in China it's called '*zizhu chuangxin*', in Brazil it's called '*gambiarra*', and in France it's called '*System D*'. In recent times, it is becoming active outside emerging markets as well.

Mexico, Costa Rica, Brazil, Kenya, Philippines, China, Argentina and, of course, US and the UK, all have been bitten by the Jugaad bug. Western corporations can no longer just rely on the old formula that sustained innovation and growth for decades: a mix of top-down strategies, expensive R&D projects and rigid, highly structured innovation processes.

So, it is very interesting to observe that this sort of "bottom-up, grassroots-led, frugal and flexible kind of approach" is really picking up around the world, partly for the negative reasons of scarcity and unpredictability but also because of positive reasons that people are increasingly more empowered to be able to do things themselves in a frugal-flexible way.

Not many of us had thought this way but actually, this is just the beginning leading to a movement. India is at the forefront of this approach simply because India has scarcity and unpredictability. Moreover it has large multinationals operating here that can provide a large scale of operations and innovations. So, in many ways, India is probably at the forefront of the Jugaad approach. So next time you see a Jugaad working, appreciate this Indian talent.

Jugaad:

A solution to 'no-net-for-table-tennis-table'.

Engineers' style!

HIDDEN TALENT

Meet Subhash Bhaiya, who you may have seen going about his work diligently at the Nescafe shop in campus. So, what does he do in his spare time? He sketches these breathtaking paintings. He may not have the best of the audience for his work, but in his own rights, he sure is a magician! Don't forget to have a look at his sketches the next time you saunter around **Nesci**.

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