

Special Edition

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The Editorial Board

Presents

TIRESIA

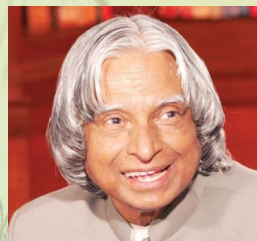
Colours of Malaviya

"A strong, positive self-image is the best possible preparation for success."

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**Communication between
human brains**



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Message from The Editorial Board

“The lure of the distant and the difficult is deceptive.
The great opportunity is where you are.”

The sad demise of Dr. Kalam after a massive cardiac arrest marked the end of an era. Last month desecrated a few white-collar events like MALAVIYAN ACE, THE START-UP SEMINAR and amplified the vocational acumen of the Malaviyans.

The grass is green and the grain is yellow, with mists and mellow fruitfulness, it is time to fortify the mild September and brace our real selves. Pursuing the path of austerity, let all the hostility disappear in the calm breeze.

The campus recites a vivid tale of ado as the spadework for TECHSRIJAN'15 is all geared up. This month beholds a few more events; ABHIPRERAN and AAGMAN.

Hailing the divine soul of our MISSILE MAN, **The Editorial Board** steps forth and presents this issue of **TRESIA** as an avenue of bliss and best wishes.

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FROM VICE CHANCELLOR'S DESK

It is heartening to know that the Literary Sub Council of Council of Student Activities of the University is coming out with the second issue of University's monthly newsletter titled **TRESIA** for academic session 2015-16 in September 2015.

After commencement of second academic session since inception of this University, the student strength in the campus has risen significantly. This capacity enhancement had put forward challenges on all fronts. I am pleased to note that the proactive approach of the committed team of University comprising of administrative officials, faculty & staff members has been successful in negotiating these challenges satisfactorily as is evident from the strict adherence to the academic calendar and congenial ambience around in the campus. Initial troubles faced by the University community due to deficient & old infrastructure and shortfall in human resource are being looked into vigorously in the given constraints.

I wish to take this opportunity to call upon the all stakeholders to actively of technical education to aggressively contribute in strengthening the teaching learning activities and enrichment of extracurricular activities for achieving requisite professional competence along with being a good human in the students of the University.

I congratulate the members of **The Editorial Board** and believe that this news letter will help in meeting its' objective of being a potential communicator with students and other stakeholders for overall growth of the University as a hub for excellent technical education.

Jai Hind

Prof. Onkar Singh

FROM CHIEF EDITOR'S PEN

I feel extremely delighted to share with the readers, release of the second issue of monthly newsletter in September 2015, at our university portal in the shade of a young, experienced, dynamic, visionary and scholarly vice-chancellor Prof. Onkar Singh. Of course, we have been bringing out the same under the aegis of erstwhile M.M.M. Engineering College, Gorakhpur dating back to April 2010, yet the specialty of the present issue is that it, besides providing the readers with the details of information and activities of in and around the university, speaks a volume about the destiny of the university. The student members of **The Editorial Board** deserve appreciation in carrying on "the old order change the yielding place to new" with doubly increased energy and enthusiasm.

Dr. Arjun Dubey

Tête-à-tête

With

Mr. Anil Kumar Srivastava



Mr. Anil Kumar Srivastava, 1977 batch, was the student of the first batch of Electronics and Communication Engineering of MMMEC. After completing B.E., he joined M.Tech. in B.H.U. and during the course he joined All India Radio on the basis of Engineering Services Exam 1977 where he worked with the installation team. He also appeared in 1978 exam and joined the Department of Telecom as an ITS officer in 1980. He was posted as Assistant Divisional Engineer and since then he has worked for DOT/BSNL in different capacities like Divisional Engineer, Deputy General Manager, General Manager and Chief General Manager. He was the state head of two states- Chhattisgarh and Gujarat and finally retired as the Chief General Manager of Gujarat Telecom Circle, on July 31, 2015, **The Editorial Board** got an opportunity to interview him.

Q1. Sir, please describe your life post Malaviya.

My post Malaviya life which includes my family and professional career was very satisfying. I rose to the highest rank in BSNL.

Q2. What was your college life like at that time?

As usual the college life was full of fun. We used to play different games after the class hours. My colleagues were sport maniacs and at least half of the various college teams comprised of them. In those days the college was very remotely located because of poor transportation to the main city. Sometimes we used the mess rickshaw and rode it ourselves for any odd hour requirement.

Since ours was the first batch of Electronics, it was very essential, not only for the faculty members but also for the students to take the new department forward. I still remember the tireless effort of the the faculty members headed by Shri H. R. Singh. It will not be fair on my part if I don't recall Shri C.B. Tripathi, Arun Kumar and A.K.Goyal at this point.

Q3. What is your success secret?

My success secret is none other than working with dedication and putting in concrete efforts for achieving the goal. One should always believe in the motto "Yes, I can do it". You will seldom fail and even if you fail it will be satisfying that at least you tried your best.

Q4. What are your views on the current state of the Malaviyan Alumni Association?

Malaviyan alumni association is doing a great job and it is heartening to see Malaviyans on one platform and sharing their views. I feel more such chapters should function at other places where Alumnus can meet and share their views.

Q5. What message would you like to convey to the budding engineers of the Malaviya?

Always dream beyond your reach and put a focused effort to achieve it. You will definitely achieve the optimum. Never say no to proximating additional responsibilities, this will surely pay you in the future.

Campus Buzz



- **Parents teacher meeting** was held in ITRC seminar hall for every department.
- Verilog classes were conducted from **August 17, 2015** to **September 4, 2015** by **ELECTRONICS AND COMMUNICATION ENGINEERING SOCIETY**.
- Online test series, 'Malaviyan Ace' was conducted by **The Editorial Board**.
- A career counselling event, 'Abhipreran' was organised by **Social Engineers' Board** exclusively for first year students.
- A seminar themed 'Enhancement of entrepreneurship skills' was organised by **The Entrepreneurship Cell** on **August 24, 2015**.
- Refurbishment of Cafeteria premises was carried out.

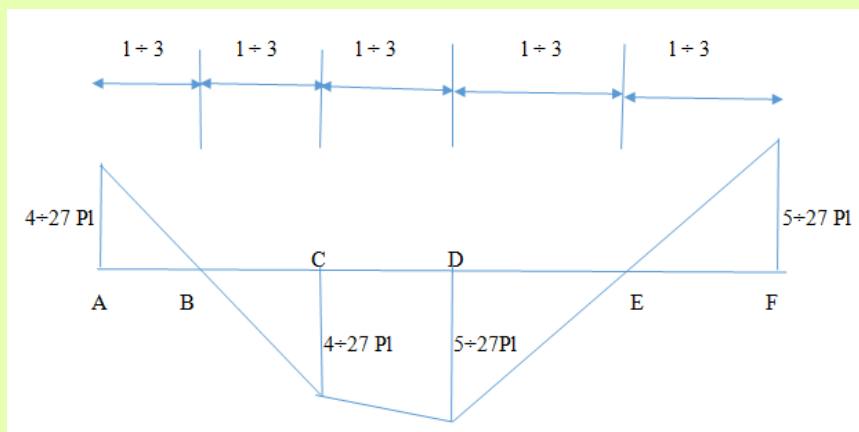
TECH*in*SIGHTS



Here is a set of questions for this month's competition.
Mail the answers to edboard.mmmut@gmail.com.

- **CIVIL ENGINEERING**

Bending moment diagram of a balanced cantilever beam is shown below. Draw the beam and find the loads acting on the beam.



- **MECHANICAL ENGINEERING**

Explain the difference between Heat Death and Big Rip Hypothesis.

- **COMPUTER SCIENCE AND ENGINEERING**

What is conditional compilation? How does it help a computer?

- **ELECTRONICS AND COMMUNICATION ENGINEERING**

Design an OR gate using a 2×1 Multiplexer.

- **ELECTRICAL ENGINEERING**

Why is star delta preferred with induction motor?

- * **Winners of the last edition:**

ECE: Akanksha Singh, Final Year ; ME: Devendra Singh, Final Year ;
CSE: Prince Sharzeel, Second Year; No satisfactory answer from CE and EE.

Direct Brain-to-Brain Communication Between Hu- mans Demonstrated!

In an experiment that one rival scientist dubbed a "stunt", Spanish researchers claim to be the first to have demonstrated direct brain-to-brain communication between humans. A team of researchers led by Giulio Ruffini, CEO of Starlab in Barcelona, successfully transmitted the words "*hola*" and "*ciao*" in binary code from the brain of a person in India to the brains of three people in France. Electroencephalography (EEG), which monitors electric currents in the brain was used to record the information from the sender's brain and robotized Transcranial Magnetic Stimulation (TMS) which causes neurons to fire from an electric current that is generated by a rapidly changing magnetic field, was used to deliver the message to the brains of the receivers in France.

For years, researchers have been developing non-invasive systems for translating information directly from the human brain to the computer. These systems called brain-computer interface often involve brain activity-sensing tools such as EEG, functional Near-Infrared Spectroscopy (fNIRS) and Functional Magnetic Resonance Image (fMRI).



“We are all
now
connected
by
internet,
like neurons
in a giant
brain.”

Researchers have also, to a lesser extent, experimented with translating information from the computer to the brain, using brain stimulating tools such as TMS — variations of which have also been used to treat depression — and transcranial focused ultrasound (FUS), which has been used to link the brains of rats. The Starlab experiment integrates two of these existing technologies to move a message from one brain to another, via computer. The experiment was set up like this: While hooked up to an EEG device, the sender was asked to imagine moving his hands or feet when shown an image that represented a 1 or 0, respectively. The EEG data was transmitted to the computer, translated into binary code, and emailed to the system at the recipients' end. The recipients, blindfolded, received electric pulses from the robotized TMS system in the visual cortex of their brains. That triggered the experience of phosphenes: the perception of seeing flashes of light that are not actually there. The recipients reported verbally when they experienced a flash, and this was translated into binary code and then to the message. It's super slow — the equivalent of telepathic Morse code. Still, the message was delivered.

It's a fun experiment, and it's exciting to think about potential applications, like soldiers with high-tech helmets communicating silently behind enemy lines.

Future experiments will no doubt help us define what "brain-to-brain interface" really means. In the meantime, we'll have to squabble over the few experiments under our belts.

STUDENT MEMBERS

FINAL YEAR

Adarsh Chaudhary
Aishwarya Chauhan
Asmita Pal
Divi Khare
Mudit Saxena
Pragya Pandey
Rajesh Kumar Ojha
Ritika Gera
Saurabh Dubey
Shweta Srivastava
Sonali Mishra
Vijaya Laxmi Acharya
Vishal Sharma

YOGA

A JOURNEY TO FIND OURSELVES

YOGA, a journey within to purify our soul, a spiritual practice to entail mastery over the body, mind and emotion. It teaches us to cure what need not be endured and endure what cannot be cured. The word “yoga” is taken from Sanskrit word “*yuj*” which means “to unite”. Thus yoga means union of individual with *parmatma*, the universal soul. Yoga has many paths and each path has enlightenment like love and devotion (as in ‘*bhakti yoga*’), selfless work (as in ‘*karma yoga*’), knowledge and discernment (as in ‘*janana yoga*’) or in eight limbed system of disciplines emphasizing meditation (as in ‘*raja yoga*’).

Apart from spiritual goals, the physical postures of yoga are used to alleviate health problems, reduce stress and make the spine supple in contemporary times. Yoga is a very precious gift to the world given by our nation. In view of its connection with India’s ancient root and its acceptance throughout the world, our Prime Minister Mr. Narendra Modi suggested United Nations General Assembly to celebrate June 21 as International Day of Yoga, as this is the longest day of year in the northern hemisphere and has special significance throughout the world. Surprisingly, this proposal was supported by 177 member states in UNGA and thus adopted without a vote. This year, June 21, 2015, first International Day of Yoga created many records. A total of 175 nations co-sponsored the resolution and had the highest number of co-sponsors ever for any resolution of such nature. In India, about 35,985 people, including the Indian Prime Minister and a large number of dignitaries from 84 nations met at Rajpath in New Delhi and performed 21 yoga *asanas* for 35 minutes.

STUDENT MEMBERS

THIRD YEAR

Abhishek Singh

Abhishek Yadav

Ankita Jaiswal

Antra Saxena

Deeksha Sharma

Dhawal N. Asthana

Lisha

Prema Arya

Ravikant

Ritvik Verma

Shubham Chand

Siddharth Sagar

Srijan

Vishal Tiwari

This event at Rajpath established two Guinness world records, awarded to “Ministry of AYUSH”, received by AYUSH minister Shripad Yessa Naik.

Yoga is not an exercise, it is something more. It is not religion specific. Any person, who loves himself and wants peace and happiness in life, must accept yoga in everyday routine. It is a process to search ourselves inside us, the reason of our present state of happiness or sorrow and also to understand what we really want from ourselves. If every person of the world will accept this divine practice, there will never be any crime. Every person will start loving and helping others without any self interest. And once this happens, the whole world will again start moving towards “satyuga”, the yuga of god.



STUDENT MEMBERS

SECOND YEAR

Abhijeet Singh
Abhilasha Gupta
Divyany Pandey
Harsh Vardhan Tripathi
Hemant Singh
Himani Raj
Ishita Shahi
Rajan Kumar Soni
Rajat Srivastava
Shivangi Srivastava
Shrishti Verma
Shwetank Srivastava
Srijan Singh

A TRIBUTE TO DR. A.P.J. ABDUL KALAM



"My Story-

The story of the son of Jainulabudeen, who lived for over a hundred years on Mosque Street in Rameswaram Island and died there;

The story of a lad who sold newspapers to help his brother;

The story of a scientist tested by failures and setbacks;

The story of a leader supported by a large team of brilliant and dedicated professionals.

This story will end with me, for I have no belongings in the worldly sense. I have acquired nothing, built nothing, posses nothing-no family, sons, daughters."

-A.P.J. ABDUL KALAM (WINGS OF FIRE)

BHARAT has lost a Ratna, but the light from this jewel will guide each and every one of us towards A.P.J. Abdul Kalam's dream destination: INDIA, as a knowledge superpower in the first rank of nations. Our scientist, President and one who was genuinely loved and admired across the masses. He never measured success by material possessions. For him, the counterpoint to poverty was the wealth of knowledge, in both its scientific and spiritual manifestations. As a hero, he shifted horizons; and as a seer of the spirit, he sought to liberate doctrine from the narrow confines of partisan tension to the transcendental space of harmony.

Every great life is a prism, and we bathe in those rays that find their way to us. His profound idealism was secure because it rested on foundation of realism. He said that he would not be presumptuous enough to say that his life could be a role model for anybody; but if some poor child living in discure and underprivileged social setting found some solace in the way his destiny had been shaped, it would perhaps help such children liberate themselves from the bondage of illusionary backwardness and helplessness.

His character, commitment and inspirational vision shone through his life. He was unencumbered by ego; flattery left him cold. He was equally at ease before an audience of suave, globe-trotting ministers and a class of young students. The first thing that struck about him was that, uniquely, he combined the honesty of a child with the energy of a teenager and the maturity of an adult. He took little from the world, and gave all he could to the society. This persona was powered by the fire of endeavour. His vision for the nation was anchored in freedom, development and strength.

The late president Dr.A.P.J. Abdul Kalam will be remembered for the legacy that he has left behind. A tragic cardiac arrest has silenced the dynamic leader, and his loss will be deeply mourned by all who knew him. His memory is best honored by the creation of new institutions that nurture sciences and technology, and enable us to find a beneficial equation with the awesome power of nature. Too often, greed makes us predators of our environment. Kalamji saw poetry in a tree, and energy that could be harnessed in water, wind and seas. We should learn to look at our world through his eyes, and with the same missionary zeal.

His leadership and his accomplishments will remain as a lasting bequest for all his fellow friends, and especially for all Indians for whom he worked so hard. Human beings can shape their lives through well persistence, ability and sheer courage. But we have not been given the right to script where we are born, or how and when we die. However, if Kalamji had been offered an option, this is how he would perhaps have chosen to say goodbye: On his feet, in front of a classroom of his beloved students.

India mourns the loss of a great scientist, a wonderful president and above all an inspiring individual. However, the good that he did will not be interred with his bones, because his children will preserve his memory through their lives and work, and gift it to their children. We will miss you SIR.....

R.I.P. Dr. A.P.J. ABDUL KALAM

**“GREAT DREAMS OF GREAT DREAMERS
ARE ALWAYS TRANSCENDED”**

**People's President,
Dr. A.P.J. Abdul Kalam
15 Oct 1931 - 27 July 2015**