



The Editorial Board

Presents

TIRESIA

Colours of Malaviya

“Every accomplishment begins with the decision to try.”

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Message from The Editorial Board

“Every day is a new beginning. Treat it that way.
Stay away from what might have been, and look at
what can be.”

After the thirst-quenching end-semester break, the veteran Malaviyans returned to their beloved Halls of Ivy with the dawn of a new academic year. The University gratifies the newly admitted students of the Freshman Year.

Amidst the feelings of glee and allegiance, this month is all set to commemorate the re-birth of our country.

The rains are here, the freshness is all in the air. “A lifetime of showers moistens the soul”, welcoming the win-some monsoons. **The Editorial Board** issues this edition of **Tiresia** as an escapade of true and genuine thoughts and outsets the commencement of academic events with the “MALAVIYAN ACE” and wishes everyone a best of luck on all their endeavors.

FROM VICE CHANCELLOR’S DESK

I am pleased to note that the Literary Sub Council of Student Activities of the University is bringing the first issue of University’s monthly newsletter titled **Tiresia** for the academic session 2015-16 in August 2015.

It is heartening to realize that by now the University has completed more than 19 months of its successful existence and admitted the second batch in its different programmes in 2015-16. In view of the aspirations and need of the society, the University enhanced its intake in B.Tech. programme from 330 to 600 from the current session. This increase in admission strength is causing some teething troubles which are likely to be resolved in due course of time when the upcoming infrastructure is available for use.

The activities undertaken by the University exhibit its commitment for imparting quality technical education by strengthening it holistically through its teaching staff, non-teaching staff and students. The enforcement of the first part of the University management system for student registration and student attendance record, display and its monitoring through the website will bring positive changes in the teaching-learning atmosphere of the University.

I wish to take this opportunity to call upon the student community and other stakeholders to actively contribute in strengthening the existing processes and further enrichment of all the curricular and extracurricular activities for enhancing the professional competence of students in the University.

I extend my best wishes to all the members of **The Editorial Board** and believe that this newsletter shall act as a potential communication link amongst all stakeholders inside and outside the University for dissemination of information about good practices and seeking feedback for improving the academic environment of the University for achieving the excellence in technical education.

Prof. Onkar Singh

FROM CHIEF EDITOR'S PEN

I feel extremely delighted to share with the readers, the release of the first issue of the monthly newsletter, *Tiresia*, in August 2015, at our university portal in the shade of a young, experienced, dynamic, visionary and scholarly vice-chancellor Prof. Onkar Singh. *Tiresia*, the newsletter of the University, unlike playing the role of a sheer spectator and reporter, speaks the language of the University, connecting the stake holders, communicating with them and inviting them to be an inseparable part of the University. It tries to establish a close bond between the old scholars and the new learners by offering them to share their experiences, provide their invaluable suggestions and extend their support in making and escalating the University to an echelon where from, perforce, each and every one reflects and gravitates the world to its reputation.

Dr. Arjun Dubey

Tête-à-tête

With

Mr. Rajat Kumar Singh



Mr. Rajat Kumar Singh, student of Electrical Engineering, born and brought up in Gorakhpur has achieved great heights in his career. He secured AIR-3 in Indian Engineering Services Examination, 2011. The first two rank holders were from the IITs, he being the third made our institution proud. After passing out from the erstwhile MMMEC in 2009, he joined PGCIL (Power Grid Corporation of India Ltd) in the same year. He worked in the PGCIL as the Executive Trainee in the Commercial Department. At the time of the final posting interview, he opted for field work. Finally, he was posted at 400/220 kV sub-station Bahadurgarh, Haryana and worked there for two and a half years. Currently, he is the Assistant Divisional Electrical Engineer, Rolling Stock Operation in Allahabad in IRSEE (Indian Railways Services for Electrical Engineers). The Editorial Board got a chance to interview him. Here are some excerpts:

Q1. How would you describe your life post Malaviya?

Life post Malaviya continued to be the same for the next six months that is, full of fun. I was in NPTI, Faridabad for the class room training of PGCIL ET-XIV Batch, and as usual I kept on sleeping in most of the lectures. Then after, it was the On Job Training period in Gurgaon for the next eight months after which I reached Bahadurgarh. Life there was different. There I tried to learn some technical aspects of operation and maintenance and also tried to continue my studies. On December 10, 2012, I reached IRIEEN, Nasik (Indian Railways Institute of Electrical Engineers). This phase of life was quite exciting. In the whole training period of one and a half year, I covered some parts of India (North-East and J&K).

Q2. How was your college life?

College life was easy and fun. I had a lot of friends and was a favourite among my seniors. My favourite teacher and motivator was V. K. Giri Sir. I was never very serious about the class lectures as I used to doze off generally. Then came the volcanic time (started from the later half of the fifth semester). It was a period of being booked for Disciplinary committee again and again. To my relief, in the sixth semester I got selected for TCS.

After that, I decided to go for public-sector examinations. Final semester was a quite hectic one as I had to commute to Gurgaon for my interviews twice between my semester exams. The College days were the best days so far in my life and I will always cherish them.

Q3. Is there any memorable incident from your Malaviyan times that you would like to share?

It was my farewell, organized in the Multi-Purpose Hall. I arrived there about an hour late but to my surprise some of my juniors were still standing at the entrance looking for me. Besides this, I also remember the days when I used to hang out with my seniors during summer vacations and festivals at various places.

Q4. What is your success secret?

For whatever I am and whatever I will be, I owe a lot to my parents, elder brother, teachers and all those who tried to motivate me. I just concentrated on my academics in college which paid later on. I was very sincere towards my studies. I had a keen interest in my subject.

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

Malaviya is a brand. To keep up the reputation of this brand, it is necessary to work hard, be it any walk of life. So, I would like to tell all the young minds to stay focused on their objectives and goals. Remember one thing friends, never run away from the challenges put in front of you. Do not limit yourselves to bookish knowledge. Also, try to involve yourselves in extra curricular activities as much as possible. In the present era, it is necessary to have a good personality plus the professional skills to embark the journey globally. At last, best wishes to all my dear Malaviyans.

Campus Buzz



- Admissions for the session 2015-16 were conducted under the various courses. The number of seats under B.Tech. has been increased from 330 to 600.
- Registrations for the odd semesters were conducted in the month of July. Classes commenced from the next day of registrations.
- Orientation ceremony for the newly admitted students, chaired by the Hon'ble Vice Chancellor, was conducted on **July 14** and **July 15**.
- A new bus has been added to the University's transportation fleet to facilitate the students.
- Renovation of the basketball court was carried out.
- **The Robotics Club** conducted its induction for the 2nd year B. Tech. students on **July 25** and **July 26**.
- The University's team qualified the Virtual Round of **BAJA** conducted by **SAEINDIA 2016** held on **July 10** and **July 11** in **Chandigarh**.

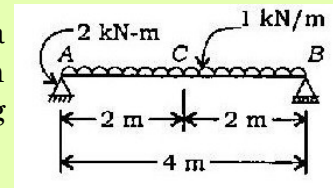
TECHinSIGHTS



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

- **Civil Engineering:**

A freely supported beam AB of span 4m is subjected to a UDL of 1kN/m over the full span and a moment of 2kN/m at support A as shown in the figure. What will be resulting BM at mid-span C of the beam?



- **Mechanical Engineering:**

What is DTS-Si technology and how does it work in motorbikes?

- **Computer Science and Engineering:**

Determine the output of the following-

```
int f(char a[ ])
{
    static int i;
    if (a[i]!='\0')
        return (0);
    i++;
    return(1+f(a));
}

void main()
{
    char a[ ]="RAM";
    int i;
    i=f(a);
    printf("%d",i);
}
```

- **Electronics and Communication Engineering:**

A resistor has a color band sequence: grey, blue orange and gold. What is the range in which its value must be in order to satisfy the manufacturer tolerance?

- **Electrical Engineering:**

Why no short circuit occurs between positive and negative electrodes through battery electrolyte and why electrical potential difference is stable in battery?

World's First 3-D Printed Car

Henry Ford's assembly line famously transformed the automobile industry in the 20th century and a new company is hoping to bring about a similar revolution in the 21st, with its recently unveiled 3-D printed vehicle.

The company is Local Motors, designers of the Strati. The car was printed in about 44 hours on spot at the International Manufacturing Technology Show in Chicago. In contrast to the thousands of components in a traditional vehicle, the Strati consists of a fewer than 50 parts. Most of its body is built from extruded plastic of the kind that Lego bricks are made up of which makes it both drastically simpler and potentially cheaper in the future than conventional cars. According to Local Motors CEO Jay Rogers, "If this works, even a little, it will reform all of the industry."

A Simpler Streamlined Build

The Strati is a sleek two-seated, roofless electric vehicle that weighs about 2,200 pounds with all its non-printed parts attached. Most of the car was constructed in a shipping container-sized 3-D printer which used nozzles to squirt layer after layer of a carbon-reinforced thermoplastic to construct the chassis from the ground up. The end product looks a lot like a topographic map of an Italian roadster.

The primary advantage of 3-D printing the Strati is that most of the chassis components are already complete after it comes off the printer. Once the steering wheel, shocks, tyres and electric motor are quickly installed, it can be driven off the lot.

The Strati can reach speeds of about 40 miles per hour and



*"It's not that
we use
technology,
we live
technology."*

can travel 120 miles on a charge but a gas engine could also be fitted. Local Motors expects the Strati to retail for about \$18,000.



The Future of Car Market

Reducing the number of parts required to build a vehicle would lower the costs and streamline production. Further, vehicle designs could be rapidly altered without waiting for a supply of new parts to be machined.

More alluring is the very realistic notion that you could pick all the specifications you need in a new vehicle, press print and drive it home the same day. One could even print a car from home since the Strati design is publicly available.

When asked what would happen in a crash, Mr. Earle said, it would be like a rock slamming against a brick wall.

However, Local Motors hopes to continue improving its thermoplastic recipe to improve strength and safety.

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

69th Independence Day

Since our first Prime Minister, **Pandit Jawaharlal Nehru** unfurled the National flag at the Red Fort for the first time sixty eight years ago, India has commemorated 15th August as the birth of a free and democratic nation. The Independence Day celebrations transcend caste and religion as citizens unite and sing hymns and songs in harmony and remember our freedom fighters. On this day, we take a pledge to defend our hard-earned freedom with all our might. Indeed, 15th August is a red-letter day for the entire nation and is observed with great solidarity.

On August 14, 1947, Pandit Nehru delivered, “Long years ago we made a tryst with destiny and now the time comes when we shall redeem our pledge, not wholly or in full measure but very substantially. At the stroke of the midnight hour, when the world sleeps, India will awake to life and freedom. A moment comes, which comes but rarely in history, when we step out from the old to the new, when an age ends and when the soul of a nation, long suppressed, finds utterance. It is fitting that at this solemn moment, we take the pledge of dedication to the service of India and her people and to the still larger cause of humanity.” Whenever we hear these words, our souls reverberate with burgeoning enthusiasm and our hearts overflow with patriotism.

As we step in the new era, we have proved the world that India has come a long way from being called the land of snake charmers to one of the most acknowledged country in the world. With our humongous initiatives like the **Mars Orbiter Mission**, we have provided an ocean of knowledge and opened new paths not only for our country but for the entire mankind. Our benign Prime Minister’s **Make In India** initiative has hydraulically lifted India’s economic stature.

STUDENT MEMBERS

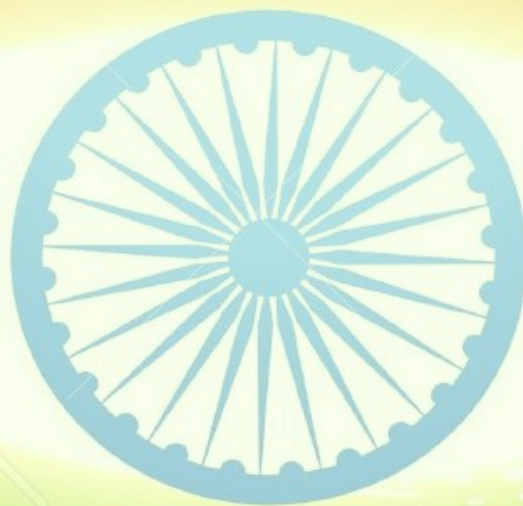
THIRD YEAR

Abhishek Singh
Abhishek Yadav
Ankita Jaiswal
Antra Saxena
Deeksha Sharma
Dhawal N. Asthana
Lisha
Purna Arya
Ravikant
Ritvik Verma
Shubham Chand
Siddharth Sagar
Srijan
Vishal Tiwari

Today, India can proudly boast about all her achievements and developments in the fields of technology, education, economics, defence, civil and innumerable others.

We have won the battle of independence but even after sixty nine years, we are still at war. A war against poverty, terrorism, corruption and discrimination. Only when we eradicate all these negativities, we can call ourselves an independent nation in true sense. So let us pledge today to act now and be the change we wish to see.

Jai Hind!!



STUDENT MEMBERS

SECOND YEAR

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