



## The Editorial Board

*-Beckoning Creati'wity*



DECEMBER 2017

VOLUME 9. ISSUE 2

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# TRESIA

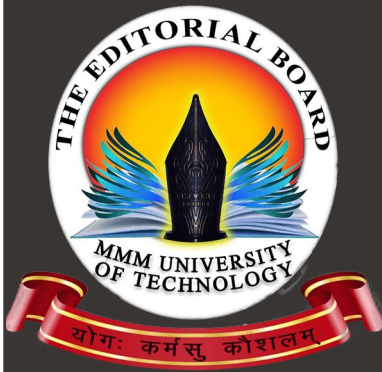
*Invigorating the Malaviyan élan*

## Tête-à-tête

**WITH**

**Mr. Arvind Pandey**  
Deputy General Manager  
in HVDC power grid  
department





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## Message from **The Editorial Board**

As the even semester begins, the life of the Malaviyans is made as pristine as a book, ready for new stories. Every sting of the winter breeze rejuvenates the soul, heightens the spirit as we stay cosseted in the warmth of 2018. Last month witnessed the university's 4th foundation day celebrations and the end of the odd semester examinations, along with a heart-warming alumni meet.

With the éclat of Arunoday'17 and tech-Srijan'17, the perky minds remain unabated for the upcoming escapades in SpellCzar'18. The sky is washed with flint-

gray, but with a hypnotic jig of elation for the Republic day and sports day.

Ushering in the new year with icy winter embrace, **The Editorial Board** brings forth the December issue of **Tiresia** with a whip up warmth of good luck.

# Tête-à-tête

## WITH

### Mr. Arvind Pandey

Mr. Arvind Pandey, Deputy General Manager in HVDC power grid department, a 1992 graduate of Electrical Engineering Department of MMMEC.

**The Editorial Board** got the opportunity to interact with him and talk to him about his experiences.



#### 1. How would you describe your life in Malaviya?

I am quite out of words. It was one of the best period of my life. The faculty and students were very cohesive as a part of institute. The Malaviyans are hard working and unique. The support from faculty and diligence of students formed the delicious recipe of my golden days.

#### 2. How difficult according to you is the transition from college life to the cor-

#### porate world?

The transition is not much difficult because a preliminary training is provided in both private and public sector for modulating students from college life to work successfully.

#### 3. Would you like to share an incident from college life that makes you nostalgic?

I would rather say that I enjoyed the entire period of my college life. I still look back to those days with nostalgia.

**4. How much importance, in your opinion, do extra-curricular activities hold in college life?**

I think, the extra-curricular activities are very important for substantial development of students. For students, study should be the main objective but the extra-curricular activities of their choice: games, cultural activities, reading, writing, etc. will tremendously aid them.

**5. How has the college helped you in framing your personality?**

In my time, most of the students came from village background. They were totally unaware of the city life. College is a place where students of different cultures learn to live together which plays a key role in framing their personality. In the same way, this college has taught me a lot of things.

**6. What would you suggest the students aiming to achieve great heights in the corporate world?**

Hardwork is the only way to

get success in any field. Not just in corporate world but everywhere.

**7. What message would you give to the students of Malaviya?**

I suggest that they should focus more on competitive exams like GATE, IES, IAS etc. They must be working really hard but they need to channelise their work. College should form different cells so that they can groom the students for such exams like we have in IITs. This will be very beneficial for their career.

**8. On your visit to university after many years, how did you find the present campus?**

I did not observe much changes. Still, on seeing the ongoing constructions, I expect amelioration within a year. In some areas, the present university has improved; for example the establishment of IT Resource Centre is a positive step in this direction.



# Campus Buzz

1. **2nd Convocation** of the University was held on September 10, 2017.
2. 65 students were selected in **TCS Placement Drive** held on September 26 and September 27, 2017.
3. The national level annual techno-management fest **techSRIJAN** was held from October 7 to October 9, 2017.
4. 10 students were selected in **Wipro Placement Drive** held on October 11 and October 12, 2017.
5. The Social Engineers' Board conducted **Dhishan** on October 13 and October 28, 2017.
6. Entrepreneurship cell conducted **Aarohan** on October 28 and October 29, 2017.
7. **The Editorial Board** successfully conducted **Arunoday** on November 3 to November 5, 2017 exclusively for freshmen.
8. A day long camp including Idea Pitching session, Speaker sessions, Ideation workshop with incubation managers & startup founders was held under Start Up India initiative of I.B. Hub and Indian Government on November 9, 2017.
9. **Fourth University Foundation Day** was celebrated with great enthusiasm on December 1, 2017.
10. **Registration for even semester** for the session 2017-18 was conducted successfully on December 26, 2017.
11. **Alumni meet** was successfully held on December 26 and December 27, 2017 for the **Golden Jubilee Batch 1967**, **Silver Jubilee Batch 1992** and **Decade Batch 2007**.

# TECH INSIGHTS

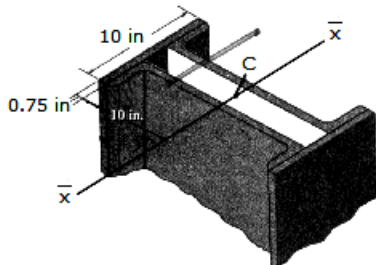
Mail your answers at  
[litarayedb@mmmut.ac.in](mailto:litarayedb@mmmut.ac.in)

## CHEMICAL ENGINEERING:

A hot fluid at 200°C enters a heat exchanger at a mass flow rate of  $10^4$  kg/hr. Its specific heat is 2000J/kgK. It is to be cooled by another fluid entering at 25°C with a mass flow rate 2500kg/hr and specific heat 400J/kg K. The overall heat transfer coefficient based on outside area of  $20m^2$  is  $250W/m^2 K$ . Find the exit temperature of the hot fluid when the fluids are in parallel flow.

## CIVIL ENGINEERING:

The composite cross section for the column consists of two cover plates riveted to two channels. Determine the radius of gyration  $k$  with respect to the centroidal axis. Each channel has a cross-sectional area of  $A_c = 11.8 \text{ inch}^2$  and moment of inertia  $(I)_c = 349 \text{ inch}^4$



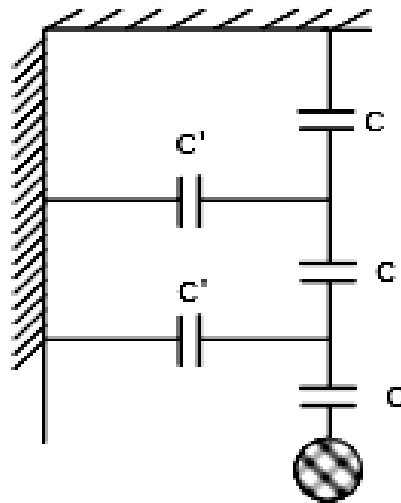
## COMPUTER SCIENCE AND ENGINEERING:

The output of following C program is.....

```
void f1(int a, int b)
{ int a[]={2,4,6,8,10};
  int i;
  Change (a,5);
  for (i=0;i<=4;i++)
    printf("%d\n",a[i]);
  return 0;
}
void change (int*b,int n)
{int i;
  for (i=0;i<n;i++)
    *(b+i)=*(b+i)+5;
}
```

## ELECTRICAL ENGINEERING:

Find the maximum voltage (in kV) that the string of three insulators can withstand if maximum voltage per unit is 20 kV and  $C'=C/6$  ?

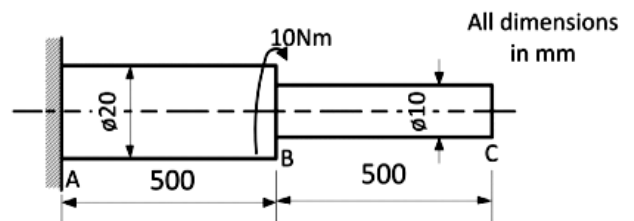


## ELECTRONICS AND COMMUNICATION ENGINEERING:

When a reverse bias is applied to a germanium diode, reverse saturation current at room temperature is 0.3uA. Determine reverse saturation current when 1.15V forward bias is applied.

## MECHANICAL ENGINEERING:

Consider a stepped shaft subjected to a twisting moment applied at B as shown in figure. Assume shear modulus,  $G=77 \text{ GPa}$ . What is the angle of twist at C (in degrees)?



# Bitcoin

**Bitcoin** is a cryptocurrency and a payment system that is being used worldwide. It is the first suburbanised digital currency, as the system works without a central treasury or single administrator. It is a type of peer-to-peer networking model and transactions between the users take place directly through the use of cryptography, without an intermediary. The transactions here are verified by network nodes and it is then recorded in a public distributed ledger called a Blockchain. Transactions of bitcoins are defined using a forth-like scripting language. These transactions consist of one or more input and corresponding one or more outputs. When bitcoins are sent by a user, the user allocates each address and the amount of bitcoin that is being sent to that address in an output.

Invention of bitcoin was done by a group of people or an unknown person under the name Satoshi Nakamoto. A domain named 'bitcoin.org' was registered on 18<sup>th</sup> August 2008 and link to a paper which was authored by *Satoshi Nakamoto* titled *Bitcoin: A Peer-to-Peer Electronic Cash System* was posted to a cryptography mailing list in November, 2008. The bitcoin software was then implemented as open-source code and was released in January 2009 by Nakamoto but the identity of Nakamoto remained unknown.

Bitcoins are created as an inducement for an important process known as mining. Mining is a record-keeping service which is done through the use of computer processing power. The bitcoin network came into existence in January 2009 when Satoshi Nakamoto mined the first ever block on the chain

which is known as the genesis block, for an inducement of 50 bitcoins. In the coinbase of this block the following text was embedded- 'The Times 03/Jan/2009 Chancellor on brink of second bailout for banks.'

The bitcoin system uses *bitcoin* as the unit of account. They are exchangeable for other currencies, products and services. The use of bitcoin payment system is increasing day by day. From the records, as of February 2015, more than 100,000 merchants and vendors accepted bitcoin as payment and from another research conducted by the University of Cambridge, it is estimated that in 2017, there are 2.9 to 5.8 million unique users who are using a cryptocurrency wallet and most of them are using bitcoin.

However, like any currency, there are disadvantages associated with using it:

1. Government might force merchants to not use

Bitcoins to ensure users' transactions can be tracked.

2. If a hard drive crashes, or virus corrupts data, Bitcoins would be lost and nothing can be done to recover them.
3. Since Bitcoins do not have a physical form, they would always be converted to other currencies unless a universal system is proposed and implemented.
4. There is no central authority governing Bitcoins.

So, considering the above facts, it is not a good currency option yet and more pondering needs to be done over its usage.



## A woman of today

*"The journey is more beautiful, more beautiful than the destination itself."*

These lines have been reverberating in our ears ever since we started to get a grip on the very foundation on which life itself is sculpted. Life is not about how we see it or how we want it to be some 20 years down the lane, but it's about the adventures we encounter, the risks we undertake. What we procure as outcome when all these transitions are amalgamated is often beyond the limited scope of our imagination. Hence is the journey of Manushi Chillar.

Hailing from a family of doctors, her childhood revolved around her dream of getting that same designation before her name as well. Hence her aim made it clear that she would be pursuing medical

for the same. A meritorious student from the beginning, she was an all India CBSE topper in English in class 12 and is currently pursuing a medical degree at the Bhagat Phool Singh Medical College in Sonipat. She is a trained Kuchipudi dancer, and has trained under the legendary dancers Raja and Radha Reddy and Kaushalya Reddy and also attended the National School of Drama. But she was destined to be a part of something greater than this.

Her inspiration to take part in beauty pageants came from her idol and the first Indian Miss World, Reita Faria, who was also a doctor. For her beauty with a Purpose initiative, Manushi

took up the mantle to spread awareness about the importance of menstrual hygiene under the name 'Project Shakti' which is still considered to be a taboo topic in many of parts of India. For this venture, she visited about 20 villages in India and made a difference in the lives of around 5000 Indian women. Knowing fully well that the esteemed title of Miss World not only comes with a responsibility but also a platform to work for different causes close to heart, Chillar has expressed her hope and noble desire to open a chain of non-profit hospitals in rural India.

By winning the title and becoming the 6th Indian to be crowned Miss World, she brought an end to the country's dry spell of 17 years at top pageant contests, her win also alludes that India is now level with Venezuela as they both hold six victories over the course of the pageant's 67 years. All these facts and fig-

ures present an exhilarating moment for every Indian to be proud of. But what felicitates this awestruck moment is the irony that it was not won by someone who longed for it, but by one who took up life's chain of events as an opportunity to discover an entirely different self being.

Her journey is a paradigm of how there is no restriction to what we can dream to achieve and aspire to be and not to curb our options no matter what the circumstances we may be in. We ought to be courageous and confident in ourselves as reflected in the motto of our Miss world'17-

*"Sky is the limit. We are limitless and so are our dreams, we must never doubt ourselves".*



## How To?

### How to Boost Your Phishing Detection Skills and Avoid Email Scams?

We may encounter various types of phishing scams particularly through emails or sites trying to get your private informations. Few can easily be uncovered by a sceptical eye but most of them may successfully fool us. Here's how you may protect yourself during those times.

1. Scam sites or emails may try to imitate an original sites or emails from an actual company. But they can't have same URL because there are imitations. At the bottom of your window you should see the URL displayed. Using paypal as an example-

<http://www.paypal.com> and <http://subdomain.paypal.com> both of these URL are okay because they end in paypal.com. A fishing URL may be like <http://payal.someotherdomain.com>

2. Always try to go directly to the web site you want to

visit rather than clicking a link. This way you won't have to figure out whether URL is safe or not.

3. What your browser can do for you:

(a) Turn Off Form Autofill. Many browsers provide this facility of getting a form automatically filled by the information already stored in the browser. Turning this off will provide you a little added protection.

(b) Utilize your browser's built in tool.

Some kinds of phishing protection is built-in to help you by many of the browsers, but these are not always enabled by default.

(c) Web of trust is one of the favorite browser extensions available because it automatically lets you know if a website is trustworthy or not. It can be downloaded on Google Chrome, Firefox, Internet Explorer, Opera and Safari.

#### FINAL YEAR MEMBERS

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

# खोता अपनत्व

पोथी पढ़-पढ़ जग मुआ,  
पंडित भया ना कोय।  
ढाई आखर प्रेम के,  
पढ़े सो पंडित होय।

- कबीर

इस कलयुगी समाज में जैसे-जैसे धन की महत्ता जज़्बातों से अधिक होती जा रही है, इंसानियत के रिश्ते की खूबसूरत डोर कमज़ोर पड़ती जा रही है। "वसुधैव कुटुम्बकम्" जैसे सिद्धांतों से संचित भरत वंशजों की इस भूमि पर पाश्चात्य संस्कृति के मेघों ने ऐसी वर्षा की, कि तत्पश्चात अंकुरित बीजों में करुणा, प्रेम, वात्सल्य की जगह लोभ, ईर्ष्या जैसे गुण व्याप्त हो गये। दुनिया को अपने परिवार जनों के समान दुलार देने की अपेक्षा तो नवीन काल के इस तथाकथित अधिक प्रबुद्ध मनुष्य से तब की जाए, जब उसके पास स्वजनों के लिए समय हो। आर्थिक और तकनीकी क्षेत्र में प्रगति हेतु हो रही इस अंधी दौड़ में इंसान तो आगे निकल गया पर इंसानियत पीछे ही रह गयी।

प्राथमिकता तो केवल अर्थोपार्जन के नये स्रोतों की खोज है, अपनों के साथ समय व्यतीत करने का समय तो है ही नहीं अब किसी के पास। अब कहाँ गूँजती हैं बच्चों की किलकारियाँ, कहाँ सुनाई देती हैं दादी-नानी

## THIRD YEAR MEMBERS

Aaruni Khare  
Anurag Dhar Dubey  
Archish Jaiswal  
Arushi  
Kratī Tiwari  
Manisha Mishra  
Narendra Mishra  
Pragya Pandey  
Shreya Mishra  
Shreyansh Srivastava  
Shubham Pathak  
Somiya Bhandari  
Tanmay Kumar

की कहानियाँ, कहाँ गुनगुनाती है अब माँ की लोरियाँ, आवाज़ है तो बस सिक्कों की खनक की जो चाह के भी अंतर्मन के सूनेपन को दूर नहीं कर सकती। अब वक़्त ही कहाँ है किसी के पास खेतों की लहलहाती फ़सल को छू कर आती हुई ठंडी हवा को महसूस करने का, वक़्त ही कहाँ है सावन में पेड़ों पर झूले डालने का, वक़्त ही कहाँ है मौसम की पहली बारिश को हथेलियों पे महसूस करने का, वक़्त ही कहाँ है?

यह इस समय की आवश्यकता है कि हम संत कबीर के उपर्युक्त दोहे को अपने दैनिक आचरण में लाएँ एवं इसके महत्त्व को समझें। इस संसार में अगर कोई चीज़ है जो हम सब को बांधकर रखे हुए है, तो वह प्रेम ही है। हम कितनी ही सफलता क्यों न अर्जित कर लें पर उसके सुख की अनुभूति तभी हो पाएगी जब उसको साझा करने के लिए कोई अपना होगा। जिस दिन से हम निःस्वार्थ मन से प्रेम करना सीख जाएंगे उसी दिन से हमारी दुनिया बदल जाएगी। इसका महत्त्व हमें तभी समझ में आएगा जब जीवन के उन आखिरी लम्हों में सारी जिंदगी आँखों के सामने से गुज़रेगी। तब जो सबसे महत्त्वपूर्ण सवाल दिमाग में आएगा वह होगा कि क्या मेरा जीवन सार्थक था? क्या मेरे जाने से किसी को फर्क पड़ेगा? हमें इस दुनिया को सुंदर बनाने के लिए भेजा गया है इसलिए हमें सदैव प्रेम बाँटना चाहिए, हमारा जीवन स्वयं ही सार्थक सिद्ध हो जाएगा।

## SECOND YEAR MEMBERS

Aditi Shukla  
Ankit Kumar Tripathi  
Anurag Sonkar  
Ashwani Dubey  
Mayank Prasad  
Pragya Singh  
Praveen Kumar Gupta  
Rishika Jaiswal  
Sarthak Srivastava  
Saumya Rai  
Shivani Dubey  
Sungtiben Jamir  
Vineeta Singh  
Yashasvi Anand





## The Editorial Board

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