



The Editorial Board

-Beckoning Creati'wit'y

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TIREZIA

Augmenting Cognizance



TETE-A-TETE

WITH

Mr. Rakesh Kumar Pathak

**Project Manager of Saudi
Electricity Company**



Faculty Advisor

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Message from The Editorial Board

“The real voyage of discovery consists not in seeking new landscapes, but in having new eyes.”

-Marcel Proust

After a revitalising summer break, being enveloped in our own world of comfort and relish, the Malaviyans stand on the threshold of the new academic year. Amidst the sentiments of fidelity and joviality, this month is all set to commemorate the resurrection of our country and rejoice the delicate and frolic knot of siblings love.

The monsoon or rather the summer’s most awaited subject of interest, is soothing the lush green premise, creating a serene atmosphere alongside this shower of felicity. Ecstatic with the grand success of the art, literary and cultural fest, Abhyudaya, we look forward to a variety of exhilarated events with the echelon jacked up for the upcoming programmes of the University.

A chunk of coal becomes diamond only when it is ameliorating to handle the pressure.

Decipher your raw talent and emblaze your personality by harnessing the ocean of underlying opportunities and battenning yourself with the zeal to succeed.

With these wishes and hopes of a miraculous year ahead, **The Editorial Board** presents the August issue of **Tiresia**.



Message from our Faculty Advisor

"A good teacher can inspire hope, ignite the imagination, and install a love of learning."

~Brad Henry

Francis Bacon, the acknowledged father of English Essays rightly opined, "Reading maketh a full man; conference a ready man; and writing an exact man." His has been a truthful observation. Can we afford an enlightened society in absentia of the writing and reading habits? Let's ponder over the facts. Life of a technocrat has always been very challenging. The farther we are marching forth on the information superhighways in the rapid information era, the frontiers of emerging Information and Communication Technology (ICT) are posing nascent problems before the Generation - Z citizens that humanity has never come across. In such scenario one more question has to be answered: Is the role of an engineer confined to solving present day problem and offer solutions to contemporary technological issues?



Obviously, his role is even beyond that. As an engineer, he is supposed to be speculative of problems yet to come.

I wish Tiresia will highlight and debate such pragmatic socio-cultural, economic and technical issues and offer solutions to the problems that future may conceive of.

With best wishes.

Faculty Advisor,
Dr. Sudhir Narayan Singh
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Tête-à-tête

WITH

Mr. Rakesh Kumar Pathak

Mr. Rakesh Kumar Pathak, Project Manager of Saudi Electricity Company (SEC) in Riyadh, Saudi Arabia is a 1993 graduate of Electrical Engineering Department of MMMEC and has been working there for five years. He has done Master of Business Administration from Park Field University (USA). **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?

My experience at Malaviya was amazing and is unforgettable. I am really out of words to pen down my feelings, the only thing which I can say is that those days were the golden days of my life. While the faculty members were supportive, the students were also very co-operative with each other and worked hard towards their objectives. Malaviyans are unique, intelligent and believe in working smartly. I am really proud of being a Malaviyan.

2. How difficult according to you is the transition from college life to the corporate world?

The transition from the college life to the corporate world is quite smooth without much difficulties because in all private and public sectors there used to be a training in order to develop the required soft skills and make the new comers accustomed to the new culture and the working environment to work successfully.

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

The days which I spent at Malaviya were the best memorable days of my life. I have cherished every moment of my college life. So, the remembrance of those past days makes me nostalgic.

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

I feel that extra curricular activities at college life are as important as subjective studies. Students' main focus must be towards the studies but their participation in the extracurricular activities of their own choice like indoor/outdoor sports, cultural events or reading/writing competitions helps the students to develop their interpersonal, social, communication, management and leadership skills which are an additional aid for their future.

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

In our batch, students from different beliefs, behavior, perspective and background joined the college. This was the place where we learnt to stay together without any differences which ultimately played a vital role in our personality development. Faculties were my mentors who provided the guidelines and motivation which inspired me to achieve my goals.

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

Disciplined, focused approach and working hard towards your goal is the only key to get the success not only in corporate world but in any segment of life.

7. What message would you give

to the students of Malaviya?

I would like to suggest that they should focus on GATE, CAT and other government and public sector's prestigious competitive exams. They should also focus on bringing out entrepreneurship skills inside them. I know that Malaviyans believe in working hard, they just have to streamline their efforts. The University should establish various cells like other tier-1 institutions in India so that students can get facilitated through it.

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

I found a lot of changes in terms of development of the infrastructure. Establishment of IT Resource Center, Chemical Engineering Department and many new hostels both for boys and girls are some of them. I found some construction activities going on. So, I expect a lot of changes to come up soon.

Campus Buzz

1. All India level event **INNOWIZION** was conducted for students by the **University Innovation Cell** across all disciplines from January 27 to January 28, 2018 to show creativity, inventions and skills to change the way we work and live.
2. **Annual Sports Meet** was held successfully from March 16 to March 18, 2018.
3. **ROBOMANIA** was conducted by the **Robotics Club** from March 16 to March 18, 2018.
4. **The Editorial Board** and **Cultural Synod** collectively conducted five days national level cultural art and literary event **ABHYUDAYA** from March 28 to April 1, 2018.
5. **Malaviya Entrance Exam (MET)** 2018 was conducted on May 12 and May 13, 2018 for the admission in session 2018-19 for various courses.
6. **MMMUT Gorakhpur** was ranked 6th all over India in the survey list of 'Top Emerging Institutes' conducted by Times Engineering Survey 2018. The list was published on May 25, 2018.
7. A **Six Week Summer Internship** program was held from May 19 to July 20, 2018 for Mechanical Engineering branch.
8. The team **SPEED WAGON CRUISER** secured AIR 30 in the dynamic events of **SUPRA SAE INDIA 2018** held at Buddh International Circuit, Greater Noida from June 11 to June 16, 2018.
9. **International Yoga Day** was celebrated on June 21, 2018 in **Multi Purpose Hall (MPH)**.
10. Online counselling for admissions in the academic year 2018-19 was started from June 7, 2018. For the first time 66 students (10% of the total intake) were admitted through the counselling of **JEE -MAIN 2018**.
11. **Malaviya Research Conclave** was held from July 6 to July 8, 2018.
12. **MMMUT Gorakhpur** has given a new recognition to the students' achievements on the occasion of Independence day through **Malaviya Excellent Student Award (MESA)**.
13. The **Orientation and Induction Programme for Newly admitted Students (IPNS)** is scheduled from July 27 to August 21, 2018.
14. **Third Convocation Ceremony** was held on August 24, 2018 in the graceful presence of Hon'ble Chancellor and H.E. Governor of U.P. Shri Ram Naik, Hon'ble Vice Chancellor Prof. Sri Niwas Singh and the chief guest, "Metro Man", Elattuvalapil Sreedharan for 2018 batch pass out students from all courses.
15. Shri R.N. Mall, Assistant Professor in the Mechanical Engineering Department, passed away on August 30, 2018.
16. A career counselling session, **DRISHYAA** was conducted by **The Social Engineers' Board** for newly admitted students on August 31, 2018.

TECH INSIGHTS

Mail your answers at

literaryedb@mmmut.ac.in

CHEMICAL ENGINEERING:

Consider a Daniel cell that has 100 cm^3 of $1.00 \text{ mol/L CuSO}_4$ solution in the positive electrode department and 100 cm^3 of $1.00 \text{ mol/L ZnSO}_4$ in the negative electrode compartment. The Zn electrode is sufficiently large that it does not limit the reaction. What is the total electrical energy that can be drawn from the cell?

Note : $\Delta G = \int (\partial G / \partial \mathcal{E})_{T,P} \delta \mathcal{E}, \text{ lim } 0 \text{ to } \mathcal{E}_e.$

ELECTRICAL ENGINEERING:

A system with open loop transfer function $G(s)$ is connected in a negative feedback configuration with feedback gain of unity. For the close loop system to be marginally stable, what is the value of K?

$$G(s) = K/s(s+2)(s^2+2s+2)$$

CIVIL ENGINEERING:

A mercury-water differential manometer, $R=700 \text{ mm}$ is connected from the 100 mm diameter suction pipe to the 80 mm discharge pipe of a pump. The centerline of the suction pipe is 300 mm below the discharge pipe. For $Q = 60 \text{ l/sec}$ water, calculate the heat developed by the pump.

ELECTRONICS AND COMMUNICATION ENGINEERING:

An air-filled rectangular waveguide has inner dimensions of $3 \text{ cm} \times 2 \text{ cm}$. What is the wave impedance of the TE_{20} mode of propagation in the waveguide at a frequency of 30 GHz ? (Free impedance $(\eta_0) = 377 \Omega$)

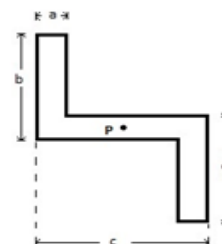
COMPUTER SCIENCE AND ENGINEERING:

What would be the output of the following C program?

```
#include <stdio.h>
int fun(char *str1) {
    char *str2 = str1;
    while(*++str1);
    return (str1-str2);
}
int main() {
    char *str = "ABCDEFGHGI";
    printf("%d", fun(str));
    return 0;
}
```

MECHANICAL ENGINEERING:

What is the radius of Mohr's circle of the structure given below? Given $a=100 \text{ mm}$, $b=400 \text{ mm}$, $c=600 \text{ mm}$ and $d=400 \text{ mm}$.



goTenna

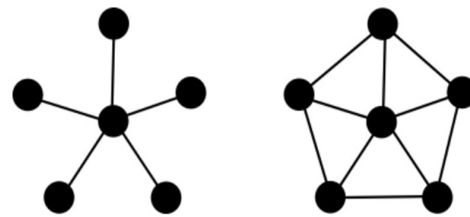
With the introduction of the first generation NMT mobile systems (1G in layman terms) in 1981, which were equally revolutionary and frail, the industry has come much ahead with the network technology. But even with all the advancements, there remains a common problem to all these technologies: a centralized network structure.

In 2012, when hurricane Sandy hit New York, it wreaked havoc across its eastern coast destroying a quarter of cell towers and loss of around 25% internet services, thus disconnecting it from the rest of the world. This gave siblings Daniela and Jorge Peredomo the idea about goTenna which focussed more on the mesh networking system.

goTenna, a start-up based in Brooklyn, New York, designs and develops technology that sends and receives wireless communication without using mobile network. The technology creates an off-grid and decentralised communication system enabling users to share text messages and location without creating any kind of centralised network.

Incorporated in 2013, its stated goal was to build "people powered peer to peer communication system." It aims at reducing users' dependence on cell towers

and Wi-Fi routers enabling the users to create their own network system. The principle, on which goTenna mesh network functions is that the users on the nodes connect directly to each other and act as relay points.



The above figures, originally published for the first time in *The Atlantic*, illustrate the difference between a centralized network system and interconnected mesh networking system. If in the first figure, the middle node collapses, so does the entire network. This is the reason of failure of most of the central networking systems at the time of any disaster. While in the second figure, each of the nodes are interconnected, offering more reliable overall support, even if one node drops off.

In goTenna mesh, the process of transfer of message starts with initial discovery. A user sends a message out in all directions with the intention of finding the intended recipient (IR). If the IR is not in range, a broadcast goes to all the other devices in range, essentially asking for the whereabouts of IR. Once a relaying

goTenna mesh confirms that it can reach the IR, the path of IR will be defined and the path between the original sender and IR will be remembered. The privacy of the message sent by the original sender to the IR, passing through various relaying user is maintained by end to end encryption. The IR holds the key to decrypt the transmission sent by the sender. So, the other relaying user can't decrypt the data packet sent by the sender to IR.



When the user loses network, rather than scuttling around in search of bars, he can instead open the goTenna app to text the other goTenna user. goTenna is incredibly helpful for people who frequently visit or reside in countryside areas or for travel junkies who discover frisson only in remote locations or for peers working in heavily insulated auditoriums, each of which either have faint or nil network coverage.

Though goTenna is the future of the mobile networking system, its idea is

also the latest militant tool, baffling the Indian security establishment. Its indigenous form, Y-SMS is now among the key technology deployed by terrorists to avoid the security forces while crossing the Line of Control. The terrorists infiltrating from Pakistan have been using smartphones paired with very high frequency (VHF) radio sets to communicate untraceably with one another.

The prominent problem of this technology is that it is still expensive and not easily available. Another disadvantage is its small range but this technology, efficient as it is, is also more reliable than the current structures, hence the modern networking era needs to transgress the current barriers and indulge into its timely implementation.

Fashion Fades, Style Remains

“Fashion is what you’re offered four times a year by designers.

And style is what you choose.”

— Lauren Hutton

Prada Eyewear, L’Oreal lips, Versace Wardrobe, Fila Footwear and the famous Carlton bags from beyond London bridges, like the glamorous personalities found in front of vanity fair, what can I say? Perfect.

Do you believe that what you wear is how you present yourself to the world? Perhaps yes, especially today, when human contacts are so quick, fashion is an instant language for the so-called famed ones. No matter if you are a blogger, fashion fiend, a social networking enthusiast or just a lover of all pretty things, you would have likely come across the ever-changing fashion trends. Being active on social media platforms like Facebook, Instagram and Snapchat, we are clearly in the firing lines for criticism. One wrong fashion statement and you end up playing a comic role in this so called perfect world.

People lament, ‘This is what fashion has come to in today’s world.’ In this iconic twenty-first century, designers forge the framework of modern fashion as the runway shows. But is really fashion the answer to every question and possessing the fashionista title so important? Wise people believe that it is just the armour to survive the reality of our everyday life.

Coco Chanel has rightly said, “Fashion Fades, only style remains”. Style can be defined as a distinctive appearance, typically determined by the principles according to which something is designed. It is not just a novelty but the spirit of times, the succession and combination of fashion. Style is forever, moreover style is tailored in an individual. Your style could be more about comfort than fashion. By cultivating your own unique style, you could adopt

that innate capability, to be charismatic and confident. Unlike fashion, style remains unaffected by the changing times. It is something built and nurtured over the years as an upshot of our deep rooted religion, background and upbringing.

Style is the language, fashion is the 'utterance of the moment'. If style is the template, then fashion is the temporary invention on that template, a merely short-lived reflection of variety or change. 'Fashion is for masses, style is for classes'.

Therefore, don't be into trends or in the race to possess the new 'it' things. Don't let fashion own you but you decide what you are, what you want to express by the way you dress up and the way you live. Be different, be anything that will assert the integrity of purpose and imaginative vision against the safe players, shallow fashion trends and emerge breaking the notion of vogue.





How To?

How to disable websites from tracking your location in Google Chrome ?

You probably know that your phone can pinpoint your location for GPS, local search or the weather. Hopefully you also know that your phone keeps track of everywhere you go, all the time. Don't be alarmed, it's the trade you make for the feature you get. If it makes you uncomfortable, here's how you can opt-out.

If you're an Android user, Google's location services are broken into two features, Location Reporting and Location History.

Location Reporting is the feature that gives apps like Google Now, Google Maps, Four-square, Twitter and many more to access your position while **Location History** is the feature that keeps track of where you've been and any addresses you type in or navigate to. To disable location reporting or history:-

- Open the App Drawer and go to 'Settings'.
- Scroll down and tap 'Location'.

- Scroll down and tap 'Google Location' settings.
- Tap 'Location Reporting' and 'Location History' and switch the slider to off for each one.
- To delete your phone's location cache, tap 'Delete Location History' at the bottom of the screen under location history.

Repeat this process for each Google account you have on your Android device.

Some important

Web Links

- 1) <https://www.academia.edu/>
- 2) <https://www.sanfoundry.com/>
- 3) <http://getintopc.com/>
- 4) <http://gen.lib.rus.ec/>
- 5) <https://edu.gcfglobal.org/en/>

FINAL YEAR MEMBERS

Aaruni Khare

Anurag Dhar Dubey

Archish Jaiswal

Arushi

Krati Tiwari

Manisha Mishra

Narendra Mishra

Shreya Mishra

Shreyansh Srivastava

Shubham Pathak

Somiya Bhandari

धर्म या धर्म संकट

*यदि मनुष्य धर्म की रक्षा करे,
तो धर्म भी मनुष्य की रक्षा करता है।
- श्रीमद्भगवद्गीता*

श्रीमद्भगवद्गीता में श्रीकृष्ण ने मनुष्य जाति को कर्मयोग का विवरण देते हुए धर्म का सरल एवं उचित विश्लेषण किया है। उन्होंने कहा है कि धर्म मनुष्य की आवश्यकता नहीं अपितु उसके जीवन का एक अटूट अंग है। जब तक मनुष्य के अंतर्मन में धर्म का वास है, तब तक उसके अंदर की मनुष्यता भी जीवित रहती है।

परंतु वास्तविकता में धर्म है क्या और मनुष्य जीवन में इसका क्या प्रभाव है, यह समझने से पहले हमें धर्म के मूल सिद्धांतों का संज्ञान होना अतिआवश्यक है। समस्त धार्मिक ग्रंथों के अनुसार मनुष्य जीवन में सत्य का पालन एवं उसकी रक्षा ही धर्म का मौलिक स्वरूप माना जाता है। पीड़ित एवं ज़रूरतमंद की सहायता करना, ईश्वर के प्रति हृदयपूर्ण समर्पण एवं स्वावलंबन धर्म के ही तो स्वरूप हैं। परंतु समय के चक्र ने मनुष्य के लिए धर्म की इस मूल परिभाषा को ही परिवर्तित कर दिया है। आज मनुष्य ने धर्म की संधि कर्म के बजाय जाति के साथ कर दी है। इसी कारणवश धर्म आज स्वयं में एक धर्मसंकट बन गया है और वह भी इतना भीषण कि मनुष्यता अपने निम्न स्तर पर आ गयी है।

कहने के लिए तो हम आज एक अत्यंत ही सभ्य समाज के भाग हैं परंतु इसी समाज की यह 'सभ्यता' कहाँ लुप्त हो जाती है जब कोई व्यक्ति धर्म के नाम पर एक पूरे समूह को भड़का देता है, कहाँ लुप्त हो जाती है लोगों की वह सभ्य मानसिकता जब कोई पाखंडी धर्म के नाम पर अंधविश्वास का प्रचार करता है।

THIRD 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

आज के मनुष्यों के विषय में किसी ने सत्य ही कहा है-

*दीन में, धर्म में, ईमान में उलझे रहिए,
बस दिखावे की झूठी चमक, शान में उलझे रहिए।
देश को लूट रहे हैं ये सियासी ताज़िर,
आप बस हिंदू-मुसलमान में उलझे रहिए।*

परिणामस्वरूप देश के अधिकतम युवा जो देश की उन्नति की नींव हैं, वे भी धर्म की इस गलत धारणा के कारण एक ऐसे अधियारे मार्ग का चुनाव कर चुके हैं, जहाँ से वापसी करना उनके लिए अत्यन्त ही कठिन है और यह हमारे देश का सबसे बड़ा दुर्भाग्य है।

परंतु अभी भी हमारे पास समय है कि हम धर्म के उस सच्चे स्वरूप को जानें, अपनी क्षीण हो चुकी मानसिकता में मनुष्यता एवं सत्यता की पुनर्स्थापना करें ताकि हम कह सकें -

*राम के घर में रहीम का आँगन,
तुलसी के कुएँ में कबीर का पानी।
जहाँ ईश्वर अल्लाह एक ही बानी,
यही है हमारे भारतवर्ष की कहानी।*

SECOND YEAR MEMBERS

Abhishek Singh

Akshat Singh

Anuj Dubey

Astitva Mishra

Avaneesh Shukla

Ishita Singh

Mayank Srivastava

Nikhil Kumar

Nitya Anand

Shikhar Trivedi

Shivam Kumar

Shivani Parashar

Suryansh Kumar Pathak

Ujali Singh

Vimecienu Kulnu

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-Beckoning Creati'wit'y

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