



**SOMAIYA**  
**VIDYAVIHAR**

K J Somaiya Polytechnic



# TANTRAVIHAR

**Magazine 2022-2023**



**K J SOMAIYA**  
**POLYTECHNIC**

## CAMPUS PRAYER

ॐ पूर्णमदः पूर्णमिदं पूर्णात् पूर्णमुदच्यते

पूर्णस्य पूर्णमादाय पूर्णमेवावशिष्यते ॥१॥

ॐ ईशावास्यमिदं सर्वं यत् किं च जगत्यां जगत् ।  
तेन त्यक्तेन भुञ्जीथा मा गृधः कस्य स्विद्धनम् ॥२॥

मूकं करोति वाचालं पङ्गुं लंघयते गिरिम् ।  
यत्कृपा तमहं वन्दे परमानन्दमाधवम् ॥३॥

ॐ प्रणो देवी सरस्वती वाजेभिर्वाजिनीवती धीनामवित्र्यवतु ।

ॐ चोदयित्री चेतन्ती सुमतीनाम् । यज्ञं दधे सरस्वती ॥४॥

ॐ असतो मा सद्गमय । तमसो मा ज्योतिर्गमय ।  
मृत्योर्माऽमृतं गमय ॥ ५ ॥

ॐ सहनाववतु सहनौ भुनक्तु सहवीर्यं करवावहै ।  
तेजस्विनावधीतमस्तु मा विद्विषावहै ॥६॥

सर्वे सुखिनः सन्तु सर्वे सन्तु निरामयाः ।  
सर्वे भद्राणि पश्यन्तु मा कश्चिद् दुःखमाप्नुयात् ॥७॥

ॐ शांतिः । शांतिः । शांतिः ॥



# EDITORIAL BOARD

Padmaja Bhanu Bandaru  
Principal & Secretary  
Chief Editor

B S Motling  
HOD, Electrical Engineering Department

A S Lalla  
Lecturer of English, Civil Engineering Department

P R Patil  
Lecturer, Mechanical Engineering Department

R A Kamde  
Chairperson, Students' Forum

D D Moulick  
Vice-Chairperson, Students' Forum

A R Yadav  
Sports Secretary, Students' Forum

Aayushi Ghatage  
Magazine Secretary, Students' Forum

Siddheshkumar Gajula  
Joint Secretary, Students' Forum

Mahek Sheikh  
Ladies Representative, Students' Forum



# Our Founder



Padmabhusan  
Pujya Shriman Karamshibhai Jethabhai Somaiya  
16.05.1902 to 09.05.1999

**“न त्वहं कामये राज्यं, न स्वर्गं नापुनर्भवम् ।  
कामये दुःखतत्यानां प्राणिनामार्तिनाशनम् ।।”**

*“Neither do I long for Kingdom, nor for heaven, nor do I desire to be free from rebirth,  
I only wish to remove the sufferings of all beings afflicted by pain.”*

# CONTENTS

---

1. Principal's Desk	06
2. Department Highlights	07
3. Sports Section	15
4. Creative Corner	22
5. Students' Forum Events	40
6. Class Photos	51

# Principal's Desk

Dear Students,

I am elated to extend a warm greeting to you in the 2023 edition of K.J. Somaiya Polytechnic's annual magazine, Tantravihar. We are reminded of the amazing journey we have taken this academic year as we turn through the pages of this magazine.

Tantravihar is evidence of our students' and teachers' diligence, passion, and inventiveness. It demonstrates the wide range of skills that contribute to the vibrancy and diversity of our institute. Our students have succeeded in a variety of sectors, from academics to artistic expressions, sports triumphs to community service projects and their tales are commemorated here. When you peruse this magazine's pages, you will witness how our institute works to inculcate in our pupils integrity, compassion, and a strong sense of responsibility in addition to academic excellence.

I want to sincerely thank the Students' Forum and Magazine Editing Committee and all the contributing members of the magazine. None of the achievements detailed on these pages would have been possible without your unwavering support.

I hope Tantravihar motivates you to set significant goals, put in a lot of effort, and never stop changing the world for the better.

**Padmaja Bhanu Bandaru**  
**Principal**  
**K. J. Somaiya Polytechnic**

# Department Highlights

## Civil Engineering Department

### Smart India Hackathon

Civil Engineering students' (Bro. Vedant and Team) won "The Smart India Hackathon" contest held at Jaipur at the National Level. The problem statement was suggested by the Smart India Hackathon (SIH), under the Ministry of Housing and Urban Affairs, to various disciplines. The problem statement of the project was "Suggest an effective way for mitigating the problem of conserving and re-using the rainwater and reduce water demand at source."

The Smart India Hackathon (SIH) Contest was held at the Arya Institute of Engineering and Technology, Jaipur, in the state of Rajasthan.



K J Somaiya Polytechnic was the only polytechnic among 27 engineering colleges to secure the first prize in the Smart India Hackathon (SIH) Contest at Jaipur.



## India Chapter of American Concrete Institute (IC-ACI) Concrete Cube Testing Competition

Eight Teams from 2nd and 3rd year participated in the cube testing competition along with Diploma and Degree Engineering Institutes of the Mumbai region. Bro. Deepak Rajput & Team won the second prize (Certificate and cash prize of Rs.7000).



Bro. Vedant R. Choudhari and Team (3rd year) were the winners of Junior Tantrotsav (Build a Beam) held at Universal College of Engineering on 23/04/2022.

Bro. Atharva S. Lokhande (3rd year) emerged as the winner (1st Prize) by participating in an Online Debate Competition during Junior Tantrotsav on 21/08/2022 organised by Universal College of Engineering.

Bro. Shubham S. Tiwari (3rd year) secured the second place in National Level Event Technoid (Quiz Competition) on 08/04/2022 & 09/04/2022 held at Vivekanand Education Society's Polytechnic.

Sis. Pratiksha B. Soshte and Bro. Om S. Ahire, Bro. Shreyash N.Patil, Bro. Pranay Manukala (3rd year) were winners of Junior Tantrotsav (Smart City planning) held at Universal College of Engineering on 23/04/2022.

Bro. Soham B. Sherlekar (3rd year) was the winner at TECHNOCRATZ held on 25/03/2022 organized by Father Agnel Polytechnic, Vashi.

Bro. Jabuani H. Rajesh, Bro. Onkar N.Yewle, Bro. Atharva Mhamunkar (3rd year) emerged as winners at Junior Tantrotsav (Scavenger Hunt) on 23/04/2022 organised by Universal College of Engineering.

### Computer Engineering Department

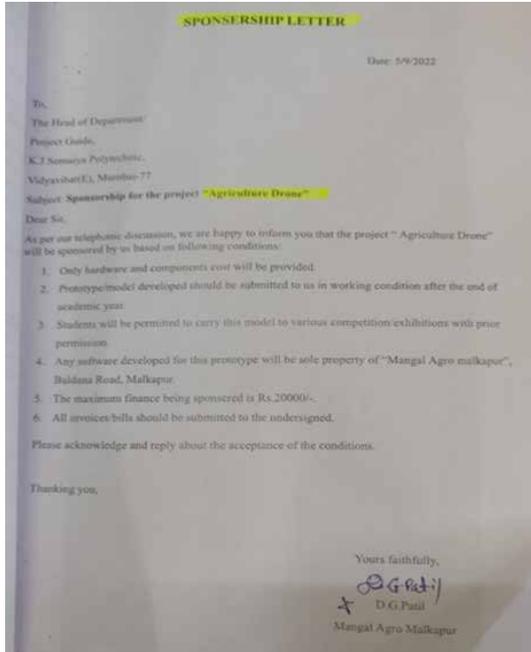
The success of Sis. Sanika Kulkarni, a student of Diploma in Computer Engineering who secured (99.96) % in final semester, merit rank 1 in Female Category & merit rank 6 in General Category overall Maharashtra for Direct Second Year Admission A.Y 2022-2023 was indeed a proud moment for KJSP. She has taken admission for her degree in VJTI, Matunga, Mumbai.

Project titled "Inmoov 3D-Printed Robot" received sponsorship from Research Innovation Incubation Design Lab and "Agricultural Drone" sponsorship from Mangal Agro, Buldhana.

### Agricultural Drone

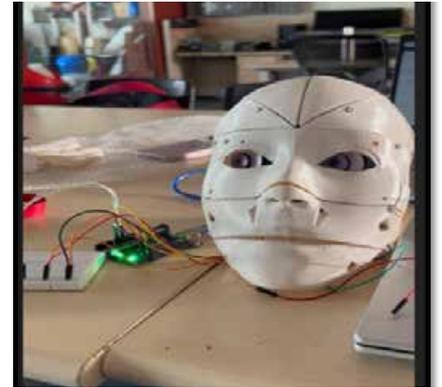
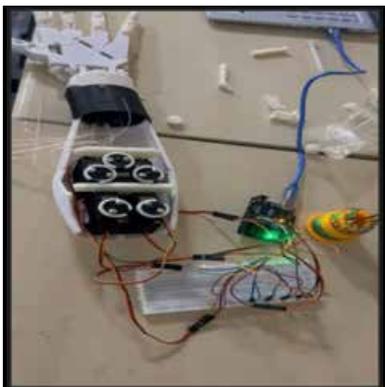
Team Members: Bro. Akshad Khapre, Sis. Sharvari Kamble, Bro. Vrut Patel.

The overall body of the drone is designed using lightweight materials. The control system of the drone makes use of sensors, supply the water level in the field, providing fertilizers. The drone is mainly used to reduce the burden of a farmer in monitoring their agricultural fields from time to time.



### Inmoov 3D-Printed Robot

Team Members: Bro. Ummul Kiram Mahuvawala, Bro. Ummesalama Mahuvawala, Sis. Aarushi Savla  
A 3D printed robotic arm and head has been developed. It is controlled by an Arduino UNO microcontroller which accepts input signals from a user by means of a set of potentiometers. The arm is made up of four rotary joints and an end effector, where rotary motion is provided by a servomotor. The STL files are made first and then converted into gcode files which are used for printing the 3D components used to make the arm and the head. The servo-motors and 3D printed components thus produced are assembled together to produce the final shape of the arm. The Arduino has been programmed to provide rotation to each servo motor corresponding to the amount of rotation of the potentiometer shaft.



Awareness programme was organized on “Untouched object, Terrorism, Women’s crime and Cybercrime” by Security Cell, Mumbai (PSI Mukund Kadam, Head Constable Vishnu Mahale and lady head constable Padmavati Mathaits)



Participation at “ABHIGYAAN” State Level Technical Quiz Competition at Viva college of Diploma Engineering and Technology, Virar.



### Computer Society of India, CSI Student Chapter

Inauguration of Computer Society of India, CSI Student Chapter was done at the institute by Computer Engineering Department.



## Electrical Engineering Department

Highlights of the Department:

- The department has been initially accredited by National Board of Accreditation, from 2019-2020 up to 30/06/22. The department was further re-accredited for another 03 years up to 30/06/25.
- The Curriculum followed in the department has been granted "Unconditional Equivalence" by the Equivalence Committee, M.S.
- The External Monitoring Committee, M.S. has granted "Excellent" Status to the department.
- Unaided branch of Electrical Engineering has been started in lieu of previous Part time Programme.
- All the faculties in the department have completed their Post Graduation.
- Industrial In plant Training is provided.
- Placement is available for the students.
- Teaching aids are developed by the students with guidance from faculties as shown in below pictures.



Transformer Oil Test Bench



PV System Characteristic Kit



Compact Earthing Test Rig



Working Prototype of 66/22 kV  
Outdoor type of Substation



Cut Section view of  
Brushless DC motor

## Electro-Horticulture

Students showcased their project on Electro-Horticulture in Maker-Mela, an International Technical Project Competition.

Under the direction of Mrs. B. S. Motling, final-year students' worked on the project. In this project, the students' have applied the principles of horticulture to grow plants in harsh climates with little access to sunshine. In their work, they essentially used the electro-culture tenets. The established Electro Horticulture system was proven to be very practical and economical. In terms of physical components and power usage, it is also incredibly cost-effective. The method promotes water and energy conservation. It can be used in huge agricultural regions. The project was presented at Maker-Mela, which is regarded as India's finest gathering of grassroots innovators.



**Electro-Horticulture**

## Industrial Electronics Department

The Indian Institute of Technology Bombay's annual science and technology festival is known as TECHFEST. The T.Y.I.E. students' participated and displayed their talent in TECHFEST, Asia's Biggest Science and Technology Festival.

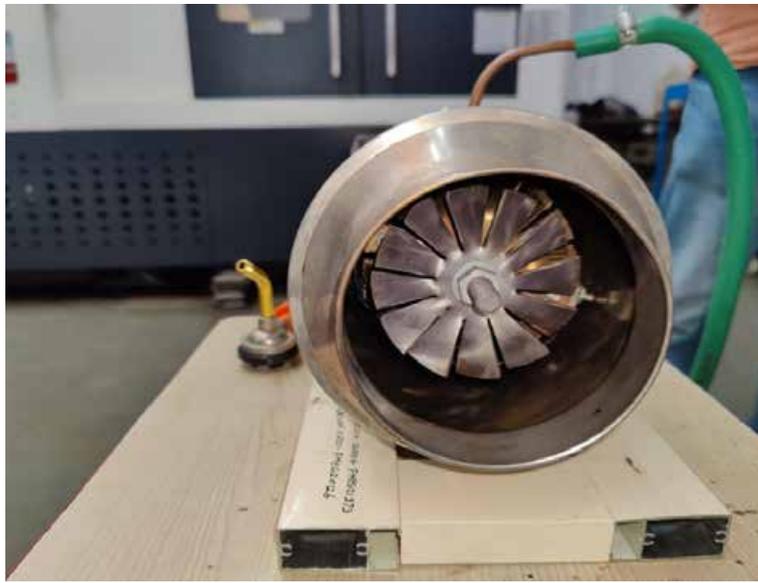
### TECH FEST PROJECT

A Group of Final year students' studied & fabricated an 'IoT based garden sprinkler'.



## Mechanical Engineering Department

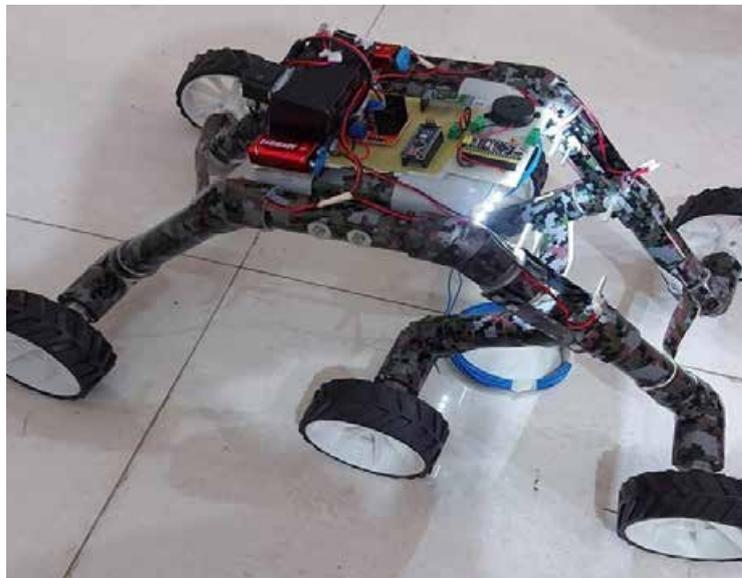
The Final-year students' of Mechanical Engineering built a variety of machine prototypes, an intelligent metal detector (IMD) rover, and an electromagnetic braking system.



**Turbojet Engine**

### **Turbojet Engine**

One of the most popular forms of gas turbine engines used in aviation is turbojet engines. They are frequently utilized in commercial jets, military jets, and other types of aircraft.



**IMD Rover**

### **Intelligent Metal Detector [IMD] Rover**

Introduction-Similar to NASA's Mars Rover, the Intelligent Metal and Land-Mine Detector Rover is an automated moving robot that may be controlled manually with a remote control or wirelessly using a Bluetooth device. The IMD Rover will be a Specially Designed Rover for Archaeologists and the Army. IMD Rover's suspension system offers excellent capability for overcoming obstacles. When compared to axle drive, the fundamental benefit of this mechanism is that each wheel rotates independently. Any wheel can move independently up or down an incline without affecting the movement of other wheels. Currently, this technology is on the NASA Curiosity Mars rover. The rover had to continue operating in an area where a minefield might be present, something for which it was built. Operation time was a big requirement as it directly impacted the ability to detect and mark landmines. The IMD Rover is reliable throughout varying weather conditions and can be made at a low cost. [Currently The IMD Rover is in the Project Prototype Development Stage.]



### **Electromagnetic Braking System**

#### **Electromagnetic Braking system**

An ineffective braking system is currently causing an increase in the number of accidents. Additionally, it is considerably less in size than conventional braking systems. Additionally, it lessens the need for brake system maintenance.

Electronic and magnetic power is used to apply the brakes during electromagnetic braking. Commercial cars frequently employ electromagnetic brakes because they can control the current flow and produce magnetic flux. Standard brakes are not as effective as electric brakes. The benefit of this approach is that it is frequently applied to any car with light electrical and gearbox system adjustments. Therefore, this technique is a recommended replacement for conventional brakes because it doesn't cause friction or require lubrication.

We can have a more effective braking system by using an effective and powerful magnetic. Minor leaks might cause the entire brake system to fail in an air conditioning or oil-based braking system. Despite the fact that each wheel's electromagnetic braking coil and shooting circuits are individually coupled, any broken or failing coil brakes do not fully fail because the other three coils function normally. Electric brakes are employed in addition to conventional accidents with large trucks as reversing brakes. Because friction brakes can be utilised sparingly, their operating temperatures are not extremely high. The potential issue of brake fade can be avoided, making brakes last longer before they require additional maintenance and more cost-effective.

# SPORTS SECTION

The 2022-23 college sports season marked a significant return to normalcy after the disruptions caused by the COVID-19 pandemic. The key aspects and changes observed during the season are Implementing the vaccinations of student-athletes, coaches and staff prioritizing the health and safety of everyone involved. This played a crucial role in minimizing health issues and leading to a smoother season.

Student athletes actively participated in the IEDSSA events of Cricket, Volleyball, Football, Basketball, Badminton and athletics. Athrava Kadam stood first in the Zonal and Inter Zonal events of Long Jump and running. The Basketball Team secured the runner up position with a good fight in the final. Polytechnic hosted the Volleyball competition of IEDSSA in a grand manner and was well appreciated by the participants Team.

The Somaiya games is another platform where our students' compete in different competitions. The Boys and Girls Team actively participated in the events and registered a notable performance. In collaboration with Somaiya sports academy students' are exposed to the best of the facilities for sports along with qualified and experienced coaches for every game which makes us a very unique technical institution.

The importance of sports and health for a sound mind and lifestyle is well understood by our Principal madam B.Padmaja and management. Sports facilities and spirit of competitiveness is extended for staff and faculty members along with students'. Staff and Faculty Teams participate in Football, Cricket (men and women), women Team making a mark by standing as runner up in TOSS 2023. Shri A R Yadav, Shri U A Maske and Shri Mangesh Deshmukh represented the Somaiya men's Team in MCA (F Division).

"The spirit of sports gives each of us who participate an opportunity to be creative. Sports knows no sex, age, race or religion. Sports gives us all the ability to test ourselves mentally, physically and emotionally in a way no other aspect of life can. For many of us who struggle with 'fitting in' or our identity - sports gives us our first face of confidence. That first bit of confidence can be a gateway to many other great things!"

Dan O'Brien

**(A R Yadav)**

**Sports In-charge**

# **Glimpses of some events**



**Football Team**



**Basketball Team IDESSA Runner up 2023**



**Cricket Team in Action at Somaiya Games**



**Volleyball Team in IEDSSA  
2023**



**Bro. Atharva Kadam ... winner in Zonal and Inter Zonal IEDSSA (Athletics ) 2023**



**IEDSSA Volleyball Host 2023**



## **IEDSSA... Volleyball Tournament 2023**



## **IEDSSA... Volleyball in action 2023**



**TOSS 2023 ( Women )**



**TOSS 2022 (Faculty and Staff)**

# **FACULTY AND STAFF as Members of SSA Cricket Team**



**MUMBAI CRICKET ASSOCIATION**  
Player's Registration Card



**Shri. Ashok Yadav**



**MUMBAI CRICKET ASSOCIATION**  
Player's Registration Card



**Shri. Umesh Maske**

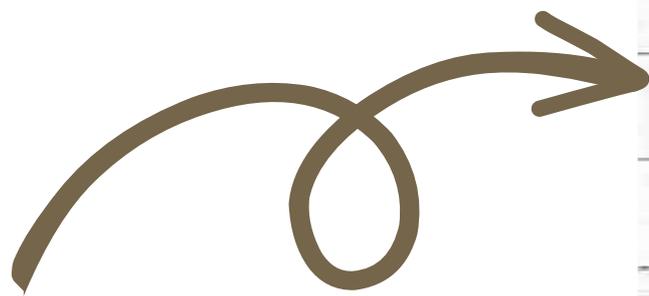


**MUMBAI CRICKET ASSOCIATION**  
Player's Registration Card



**Shri. Mangesh Deshmukh**

# CREATIVE CORNER



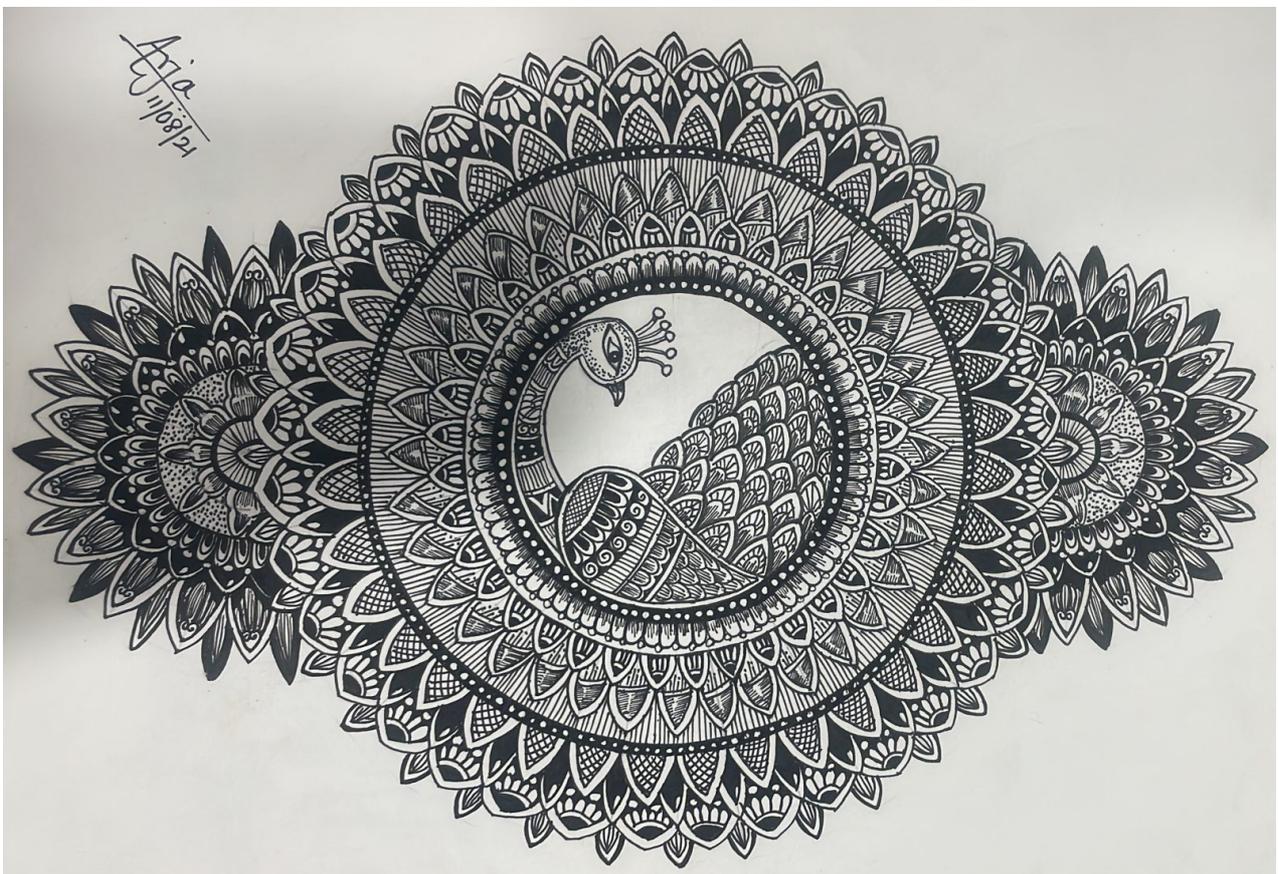
## दोस्त

एक दोस्त है मेरा सच्चा सा  
जो मेरे हंसने पे कभी रुठता  
नहीं  
जो मेरे रोने पे कभी हंसता नहीं  
मेरे जैसा ही है वो भी  
मैं रूठू तो वो भी रूठ जाता है  
मैं खामोश रहो तो वो भी खामोश हो जाता है  
मैं दो लफ़्ज़ केहदु अगर,  
तो वही लफ़्ज़ दोहराता है  
एक दोस्त है मेरा सच्चा सा  
संगी वो कहलाता है!

-----

## होसला

जीत की तू आस रख  
हार की ना सोच तू  
कोशिश अपनी छोड़ना  
चाहे हार या जीत तू  
कदम कदम मिला के खुद से  
कामयाबी चिर तू  
खुद पे भरोसा रख  
बाकी खुदा पे छोड़ तू



Arja Dattani, TYCE

# Evolution of Remote work

The concept of remote work has experienced a remarkable evolution in recent years, driven by technological advancements, shifting attitudes towards work life balance, and the global pandemic. This article explores the transformative nature of remote work and its impact on the modern workplace, shedding light on the benefits, challenges, and the potential future of this growing trend.

- **The Remote Work Revolution:** Remote work, once considered a niche arrangement, has become a mainstream phenomenon. Enabled by advancements in communication technology, professionals now have the freedom to work from anywhere, be it a home office, co-working space, or a beachside cafe. This newfound flexibility has redefined the traditional concept of the office, making work more accessible and adaptable to individual needs.
- **Advantages for Employees:** Remote work offers numerous advantages to employees. It eliminates commuting time and expenses, provides greater autonomy and work-life balance, and enables individuals to design their ideal workspace. Remote workers can create a customized environment that enhances productivity and creativity, leading to increased job satisfaction and overall well-being.
- **Benefits for Employers:** Businesses, too, are reaping the benefits of remote work. By embracing remote Teams, companies can tap into a global talent pool, accessing specialized skills and diverse perspectives. Remote work often results in cost savings, as companies can reduce office space and overhead expenses. Additionally, companies that prioritize remote work experience higher employee retention rates and increased productivity.
- **Overcoming Challenges:** While remote work offers numerous advantages, it is not without its challenges. Remote workers must navigate potential feelings of isolation and learn to manage their time effectively. Communication and collaboration can be more challenging when physical proximity is absent. However, with the right tools, technology, and a supportive company culture, these challenges can be mitigated, fostering effective remote Teamwork.
- **The Pandemic's Role in Accelerating Remote Work:** The global pandemic, with its widespread lockdowns and social distancing measures, acted as a catalyst for remote work adoption. Organizations quickly adapted to remote work out of necessity, and many have since embraced it as a long-term solution. The pandemic served as a pivotal moment that showcased the viability and resilience of remote work, leading to a paradigm shift in how work is conducted.
- **The Future of Remote Work:** As we look ahead, remote work is expected to continue its upward trajectory. Hybrid models, combining remote and in-person work, are likely to become more prevalent. Technology will play a crucial role, with advancements in virtual collaboration, artificial intelligence, and augmented reality transforming the remote work experience. Companies will need to adapt their policies, infrastructure, and leadership styles to thrive in this new era of work. The evolution of remote work has revolutionized the modern workplace, offering employees and employers newfound flexibility, efficiency, and opportunities for growth. With its advantages in work-life balance, talent acquisition, and cost-effectiveness, remote work has proven its potential to reshape traditional notions of work.

- Article by Shamoil Arif Shaikh



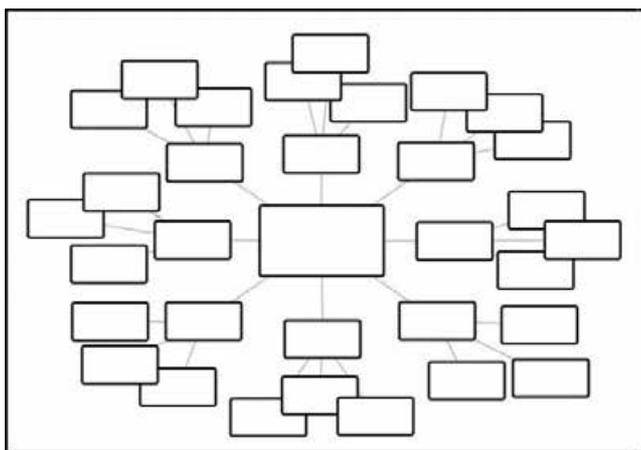
**Mahek sheikh, TYCE**



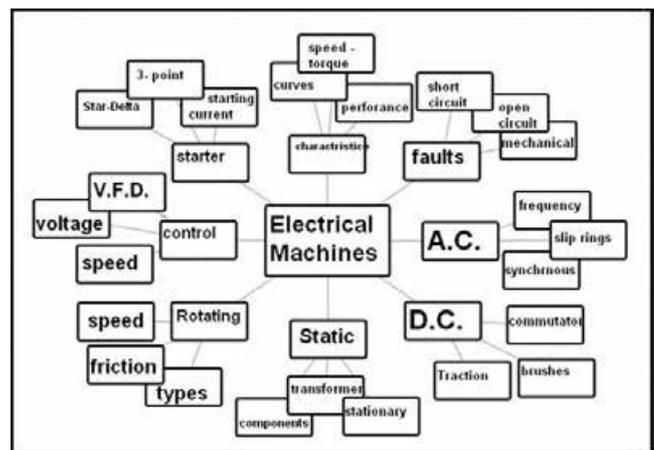
**Aayushi Ghatage, FYEE**

# Mind Map: An Educational Tool

Every successful human is the outcome of a successful mind. The thoughts which were initiated in mind try to make bonds with each other. If these bonds are strong, they create long term memory and weaker bonds create short term memory. The representation of those bonds on a visual platform is known as Mind Map. There is tremendous research work that has been done in this field around the world but its application in daily life is yet to be practiced. Our human mind is acting neutral for positive implementation and negative thinking. For example, if I asked you, "To close your eyes and don't think of a lion at all ", the big king-sized lion starts coming in front of you even in closed eyes. This is the power of the mind which never understands the meaning of words like don't, not, did not, etc. Today we are going to learn about developing a mind map and its application for educational purposes. So, to start developing a mind map 1) Consider one 'word ' in your mind and write it down in the middle cell of the mind map. 2) Now think of associated thoughts for that word and write down keywords from your thoughts in surrounding cells of the mind map. 3) Similarly, now these new associated keywords become your start point once again. 4) Start thinking new associated thoughts for those new words. 5) After writing all your keywords from your thoughts you will be done with your mind map. We have now developed our own mind map for that first word. Some of the examples for the first word would be, "Time, Life, Friends, Money, Health, Food, Study, God, etc. " Similarly, when you are preparing for study, the course tries to implement a Mind Map with associated keywords from a textbook of the relevant topic of the chapter. Once you have developed your own mind map for studying topics or curriculum concepts, the chances are increased by 5 times to remember the concepts without memorizing them thoroughly. Wish you all the best for using I mind map for educational purposes. Blank format and one example of a mind map is given for your reference.



Blank format



Example

Rohan M. Homkar  
Faculty, EED, KJSP.



David Joel, FYEE

# FUTURE OF REUSABLE ROCKET TECHNOLOGY IN INDIA



REUSABLE ROCKET TECHNOLOGY refers to the capability of a rocket to be reused multiple times for space missions instead of being discarded after a single use. Traditional rockets are typically expendable, meaning they are designed to be used once and then discarded or destroyed during reentry. Reusable rocket technology aims to overcome this limitation by developing rockets that can return safely to Earth after launching their payload into space, enabling them to be refurbished, refueled, and flown again for subsequent missions. This approach offers several potential benefits, including cost reduction, increased launch frequency, and improved sustainability. Reusable rockets typically consist of two main stages: First Stage: The first stage of a reusable rocket is responsible for the initial boost off the launch pad and into space. After separation from the upper stage and payload, the first stage is equipped with systems and technologies that enable it to return to Earth. This can involve a variety of methods, such as propulsive landing, where engines reignite to slow down and guide the first stage to a controlled landing, or aerodynamic maneuvers, where the rocket uses its fins and control surfaces to navigate through the atmosphere and land vertically or horizontally. Upper Stage: The upper stage of a reusable rocket is responsible for delivering the payload to its desired orbit or destination. In some reusable rocket designs, the upper stage is expendable, meaning it is not recovered or reused. However, there are also concepts and ongoing research to develop reusable upper stages to further enhance the reusability of the entire rocket system.

## ROLE OF ISRO IN GLOBAL SATELLITE LAUNCHING MARKET

As of Today, the Indian Space Research Organization (ISRO) has been actively working on the development of reusable launch vehicle technology. Their Reusable Launch Vehicle-Technology Demonstrator (RLV-TD) has been successfully tested and demonstrated the technologies required for a fully reusable space vehicle. Cost reduction: Reusable rockets have the potential to significantly reduce the cost of satellite launches. By recovering and reusing the major components of the rocket, such as the first stage or booster, the overall launch costs can be substantially reduced. This cost reduction could make satellite launches more affordable and attract a larger customer base, including commercial entities and research organizations.

Increased launch frequency: Reusable rockets can facilitate a higher launch frequency since they eliminate the need to manufacture a new rocket for each mission. With shorter turnaround times between launches, ISRO could potentially increase its launch cadence and meet the growing demand for satellite launches more efficiently. Competitive advantage: If ISRO successfully develops and operates reusable rockets, it could gain a competitive advantage in the global satellite launch market. Reusable rocket technology is still relatively new, and only a few companies, such as SpaceX with its Falcon 9 and Falcon Heavy rockets, have successfully demonstrated and commercialized it. By joining this select group, ISRO could position itself as a leader in affordable and sustainable satellite launches. Industry collaboration, the development of reusable rockets by ISRO could encourage collaboration with international space agencies and commercial entities. Partnerships and joint ventures may emerge, leading to knowledge sharing, technology transfer, and joint satellite missions. This collaborative approach could further enhance the capabilities and competitiveness of the Indian satellite launch market.

#### REVENUE GENERATED BY ISRO BY SATELLITE LAUNCHING IN FY 2022-23

The global space launch services market is projected to grow from \$14.21 billion in 2022 to \$31.90 billion by 2029. According to the report revenue generated by ISRO by launching satellite touched Rs 2,780 crore in 2022-23 from Rs 929 crore in 2020-21 which is almost 397 million dollars.

**B. K. JHA**  
**Faculty, MED, KJSP**



**Mahek Sheikh, TYCE**

# BE UNSTOPPABLE!!!

In the realm where dreams are born, where willpower and strength are sworn, Lies the path to discipline's embrace, A journey of challenge, grace, and chase.

A noble quest, not for the faint of heart, to forge a life, a disciplined art, A battle waged within the soul's domain, to rise above the chaos, to break the chain.

The process, oh, it's no simple feat, A struggle that many souls may meet, For discipline demands a steadfast will, An unwavering focus, an ironclad thrill.

In the beginning, the road may seem steep, like climbing mountains, daunting and deep, Each step forward with doubts and fear, but through the mist, a vision appears.

A vision of greatness, of a life well-lived, of strength and purpose, of joy received, And with each passing day's endeavor, Discipline's essence burns brighter than ever.

It starts with small acts, habits anew, A commitment to self, to dreams pursued, With diligence, consistency, and inner fire, The transformation ignites, taking us higher.

No longer bound by laziness' chains, No longer swayed by distraction's reigns, The ultimate level of discipline attained, A force unstoppable, nothing remains.

For once discipline's mastery is claimed, No challenge, no obstacle, no wall unshamed, The world becomes a canvas, ready and vast, To paint your desires, to make them last.

No longer limited by doubt or strife, Your life now an anthem, a symphony of life, The disciplined soul, a beacon so bright, A guiding star, a force of light.

So, embrace the process, though it may be tough, For discipline's rewards are more than enough, Once you reach the ultimate level, you'll see, No one can stop you, you are truly free.

**Samruddhi Soundararajan, SYCE**



**Deepak Rajput, TYCE**

# QUIZZZZZ

**1. Which country gifted the "Statue of Liberty" to USA in 1886?**

- a. France.
- b. Canada
- c. Brazil.
- d. England

**2. The Dead Sea is located between which two countries?**

- a. Jordan and Sudan.
- b. Jordan and Israel
- c. UAE and Turkey.
- d. UAE and Egypt

**3. Which country is also known as the "Land of the Rising Sun"?**

- a. Jordan
- b. Fiji
- c. New Zealand
- d. Japan

**4. Somaiya Vidyavihar University is the \_\_\_\_\_ largest campus in suburban Mumbai**

- a. 1st
- b. 3rd
- c. 2nd;
- d. 4th

**5. Giddha is the folk dance of**

- a. Maharashtra
- b. Tamil Nadu
- c. Gujarat
- d. Punjab

**6. Who has invented computers?**

- a. Charles Willam
- b. Charles Babbage
- c. Willam Speare;
- d. None of the above

**7. Who is the author of the "Wings of Fire" incident?**

- a. A.P.J. Abdul Kalam.
- b. Vikram Seth
- c. Rabindranath Tagore.
- d. Arundhati Roy

**8. Which country is also known as the "Land of a Thousand Lakes"?**

- a. Iceland.
- b. Fireland
- c. Norway.
- d. Sweden

**9. Which plateau is known as the "Roof of the World"?**

- a. Andes
- b. Pamir
- c. Himalayas
- d. Karakorum

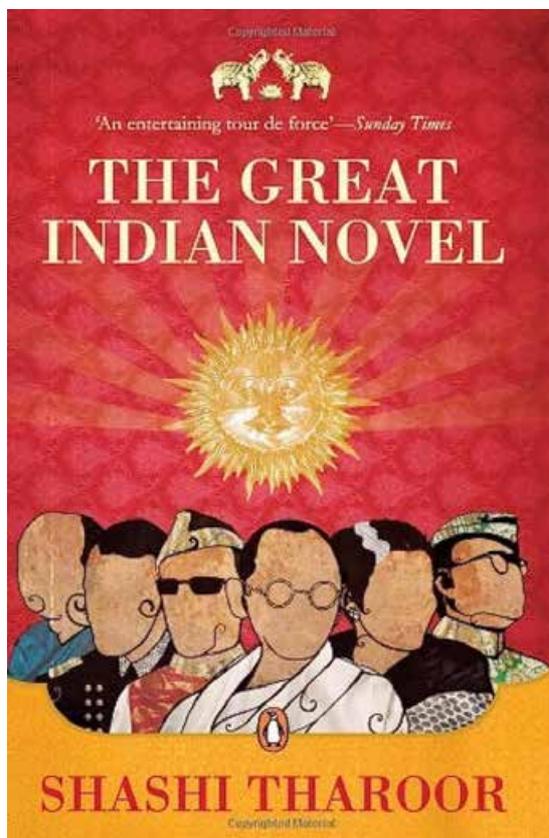
**10. Which country is known as the "Land of Thunderbolts"?**

- a. China;
- b. Mangolia
- c. Bhutan;
- d. Thailand



Tejal Tarade, TYEE

# A Book Review of Shashi Tharoor's The Great Indian Novel



- Writer : Shashi Tharoor
- Title :- *The Great Indian Novel*
- Country:- India
- Language:- English
- Genre :-Roman à clef, Satirical, Historical novel
- Publisher :- Viking Press
- Publishing year :- 1989

Hello!

Young Readers, I hope you know about The Mahabharata ? I mean The Great Indian Epic? Did you read it? I hope you are aware of the history of India's Freedom Struggle against the Colonisers ?

Did you find the history of the Indian Freedom struggle to be tiresome ?

If you want to enjoy both of them, then you have to read The Great Indian Novel of Shashi Tharoor. Critics often slammed Tharoor for being a One Novel Wonder but believe me this novel in itself a Wonder. Tharoor picks up the history of India's freedom struggle and recasts it with characters from the greatest epic ever, The Mahabharata scripted by Lord Ganesha and composed by Ved Vyasa.

There is a parallel narration which revolves around the tale of Jaya while the other one is about the Indian freedom struggle. Later on Ashwin Sanghi of Krishna Key fame used it. Thus the readers will come across some great characters like Bhisma Peetamah, Dhritarashtra, Maharaja Pandu. So you might wonder who these characters were during the Indian Freedom struggle, well Gandhi is the father figure of the Indian political movement, obviously he is Bheesma Peetamah. Pandit Nehru was an blind idealist thus Dhritarashtra and Subhas Chandra Bose, the Valiant Indian Political Hero (many leaders were there but Heroes were rare) have been painted as Maharaja Pandu. I came across a beautiful poem where Tharoor has showcased Bose as a Patriot of the Patriots not a Fascist, a rare and true gem of his instance.

The hungry literary people would have multiple literary devices such as puns, metaphor, allusions, oxymoron, vibrant imagery to be gulped upon. It has been referred to as a Historical Novel, but I prefer to call it Mytho-Historical Satirical Dark Comedy, neo noir fiction. The Great Indian Novel is as insightful as it is funny, it offers a new way of interpreting the events of yesteryears. A special mention to the character of Draupadi whose advent changes the fast paced narration towards a kind of Scott's void (noticed in Ivanhoe, Kenilworth). The reader will live through Gangaji's ideology, his movements, Duryodhani's political mind



Indira is Priyo Duryodhani, the political heir to the power saga. The narrator, the Ved Vyas, is thrillingly irresistible when he analyzes the events..it makes you laugh and provokes you to think. The narrative is cynical, it is layered and practically very much Gandhian .As The Indian Express have said and I quote ,

“Every sane Indian should buy this book”!! So go for it and enjoy the greatest story ever told along the frame of Indian History.....”

We are all aware of the basic events of The Mahabharata and the Indian freedom struggle, but how does Tharoor draw a thrilling amalgamation of mythology and history with a great dose of satire into a compelling novel ?

The answer is simple, read the novel

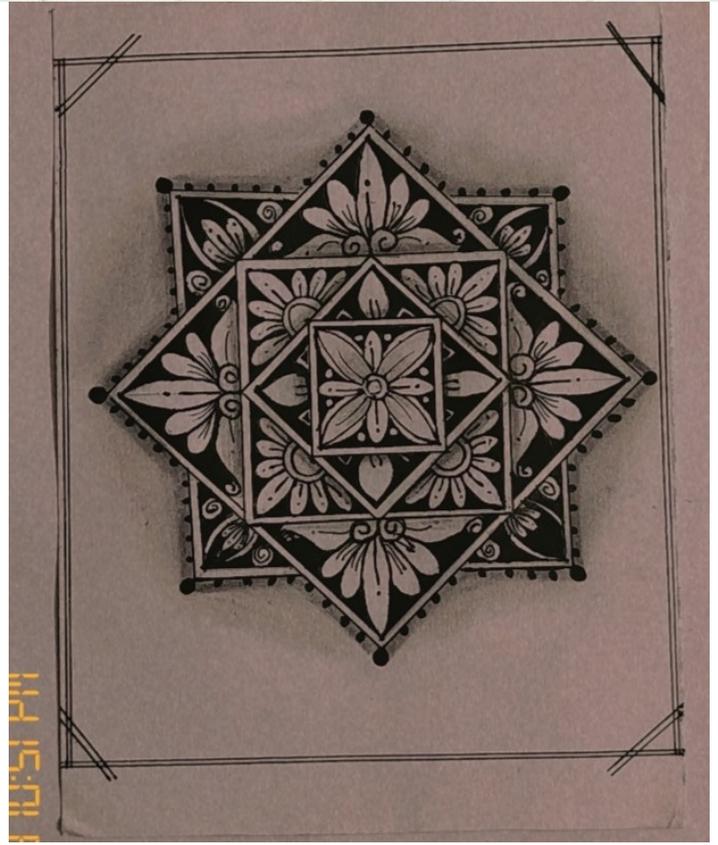
P.S- Don't miss nomenclature like Mohammed Ali Karnah (Jinnah, Muslim League), ManiMir (Cash Mir-kashmir, apple of Discord), Snup-ing, the capital of Chakra ( PeekKing, the Chinese Capital, Indo Chini Relation)

Disclaimer- All the images have been taken from the Internet

**Book Review by  
Debraj Moulick  
Vice-Chairperson, Students' Forum, KJSP**



**By Sharavi kamble FYCO**



**By Krishi Mudaliar FYIE**



**By Kshitija Papale FYCE**

## Students' Forum 2022-2023

In 2022, the world slowly started to get back to its usual state of activity. Students' Forum, under the exemplary leadership of Mrs. Rashmi Kamde (Chairperson) and the staunch support of Mr. D. Moulick (Vice Chairperson), faced the enormous challenge of organising various events in offline mode after a gap of two years in the institute. However, the Student Forum journey was made easier by the daunting spirit, grit, and determination of nine shining student members of the Forum.

Forum embarked on the journey of activities by organising a quiz, poster competition, and essay competition for both students' and staff for Samata Parv (November 26th, 2022 Samvidhan Diwas to December 6th). The event concluded with the display of creative posters and essays on December 6, 2022, the Mahaparinirvan Diwas of Dr. B.R. Ambedkar, Father of the Indian Constitution.

The Students' Forum of K. J. Somaiya Polytechnic also ventured into technical events by organizing two sessions on drone technology. The first one was conducted at Sakarben Sabhagruha with the active participation of faculty and students', where each of them witnessed the working methodology of an array of drones by the eminent speaker, Dhruvin Dhodiya, CEO and Co-founder Drone School of India, on December 19, 2022. This event was quickly followed by an online session on the importance of drone technology in agriculture on December 30, 2022, where the veteran speaker, Dr. Mukund Shinde (Professor of Soil and Water Conservation Engg., MPKV, Rahuri), emphasized the incubation of various drones in the agricultural production of the nation.

The Students' Forum geared up for the Polytechnic Cultural Fest UTSAVA 2023 for the first time since the outbreak of the COVID-19 virus. It was a grand affair of three days with various events like Rangoli, Mehendi, PC Gaming, Stalls, Band Performance, Bollywood Quiz, Dance Battle, Treasure Hunt, Fashion Show, and Flash Mob, among others.

A break from the busy academic schedule provided an opportunity for the students' to showcase various talents in an array of events. The best department trophy was won by the Computer Engineering Department.

Marathi Bhasha Divas witnessed a majestic display of texts in Marathi at the Institute Library. Students and faculty members participated in two events: Nibandh Spardha and the Handwriting Competition. The winners were provided prizes based on the decisions of eminent panelists.

Annual Day, the most anticipated event of the year, was celebrated on March 10, 2023. Since its inception, the Annual Day has been celebrated on open ground for the first time ever at Gargi Plaza, Vidyavihar. The joyous affair was filled with singing, dancing, and band performances by students' and staff members. The class representatives and winners of cultural, technical, and sports events were felicitated for their extraordinary achievements.

The Student Forum organized the class photos session for the final-year students', faculty members, non-teaching staff, and administrative staff on March 28, 2023.

The Forum commemorated the birth anniversary of Dr. B.R. Ambedkar, the Bharat Ratna who served as the chief architect of the Indian Constitution, on April 14, 2023. On May 1, 2023, the K. J. Somaiya Polytechnic Student Forum celebrated Maharashtra Diwas by hosting an online quiz in which both students' and staff members actively participated. This marked the conclusion of the Student Forum's journey for the academic year 2022-2023.

All of the members—faculty, staff, and students'—who actively participated in all of the activities and contributed to their success are acknowledged by the Forum. But this journey wouldn't be complete without expressing gratitude to the principal, Padmaja Bhanu Bandaru, Secretary of the Students' Forum, without whose all-encompassing support none of the activities would have been a success.

Adios!

**Mrs. Rashmi Kamde**  
**(Chairperson, Students' Forum, KJSP)**

"A Team is more than a collection of people. It is a process of give and take." ~ Barbara Glacel



**Arja Dattani**  
General Secretary

**Siddheshkumar Gajula**  
Joint Secretary



**Varun Singh Rajput**  
Joint secretary

**Athrava Kadam**  
Indoor Game Secretary



**Padmaja Bhanu Bandaru**  
Ex Official Chairperson Students' Forum

**Saloni Gamre**  
Cultural Secretary



**Mahek Sheikh**  
Ladies Representative



**Rashmi Kamde**  
Students' Forum Chairperson



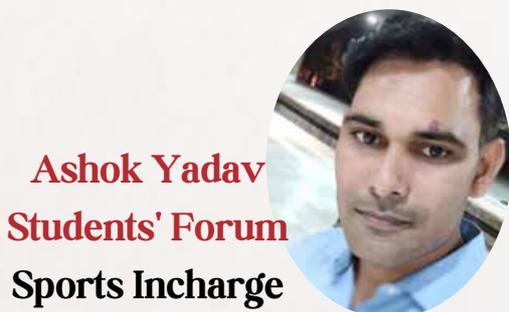
**Shambhavi Chilveri**  
Cultural Secretary



**Debraj Moulick**  
Students' Forum Vice Chairperson



**Aayushi Ghatage**  
Magazine Secretary



**Ashok Yadav**  
Students' Forum Sports Incharge

**Deepak Rajuput**  
Outdoor Game Secretary

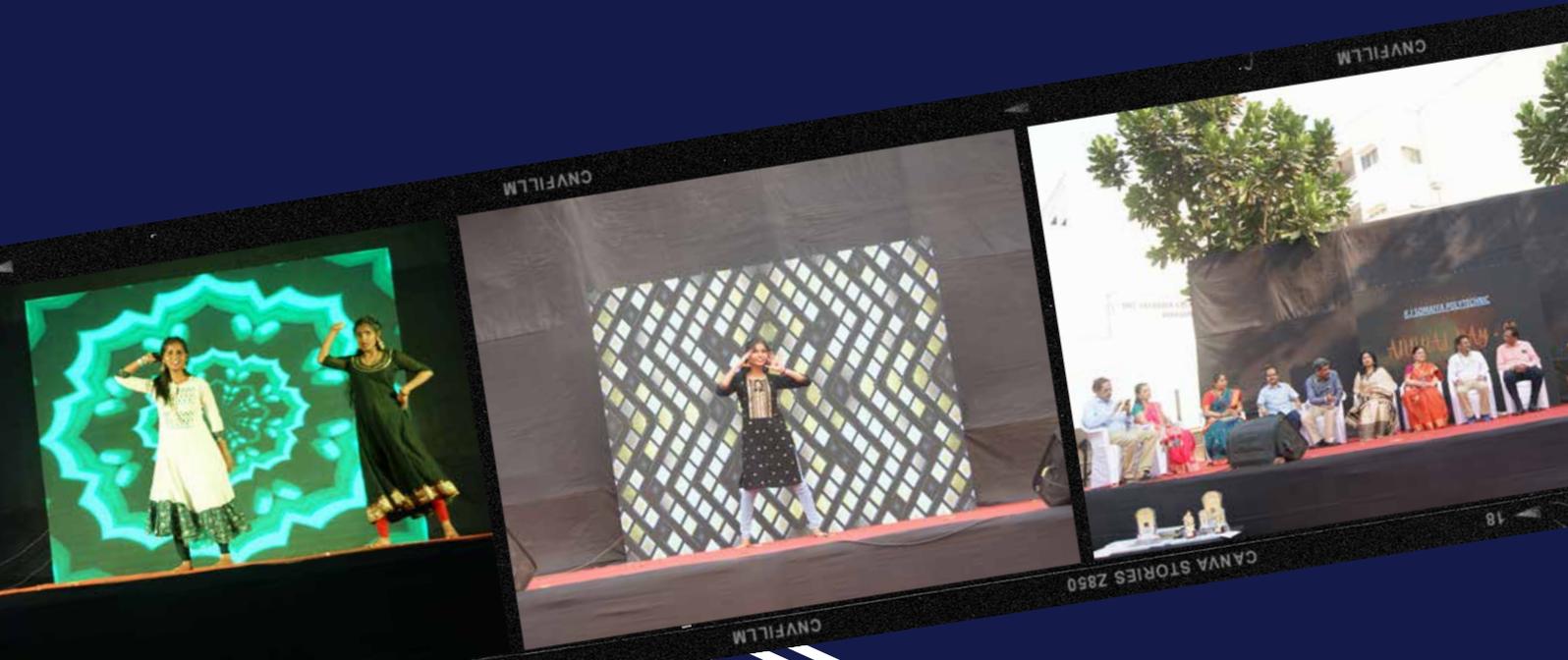


# STUDENTS' FORUM

2022 - 2023

# ANNUAL DAY





2K23!

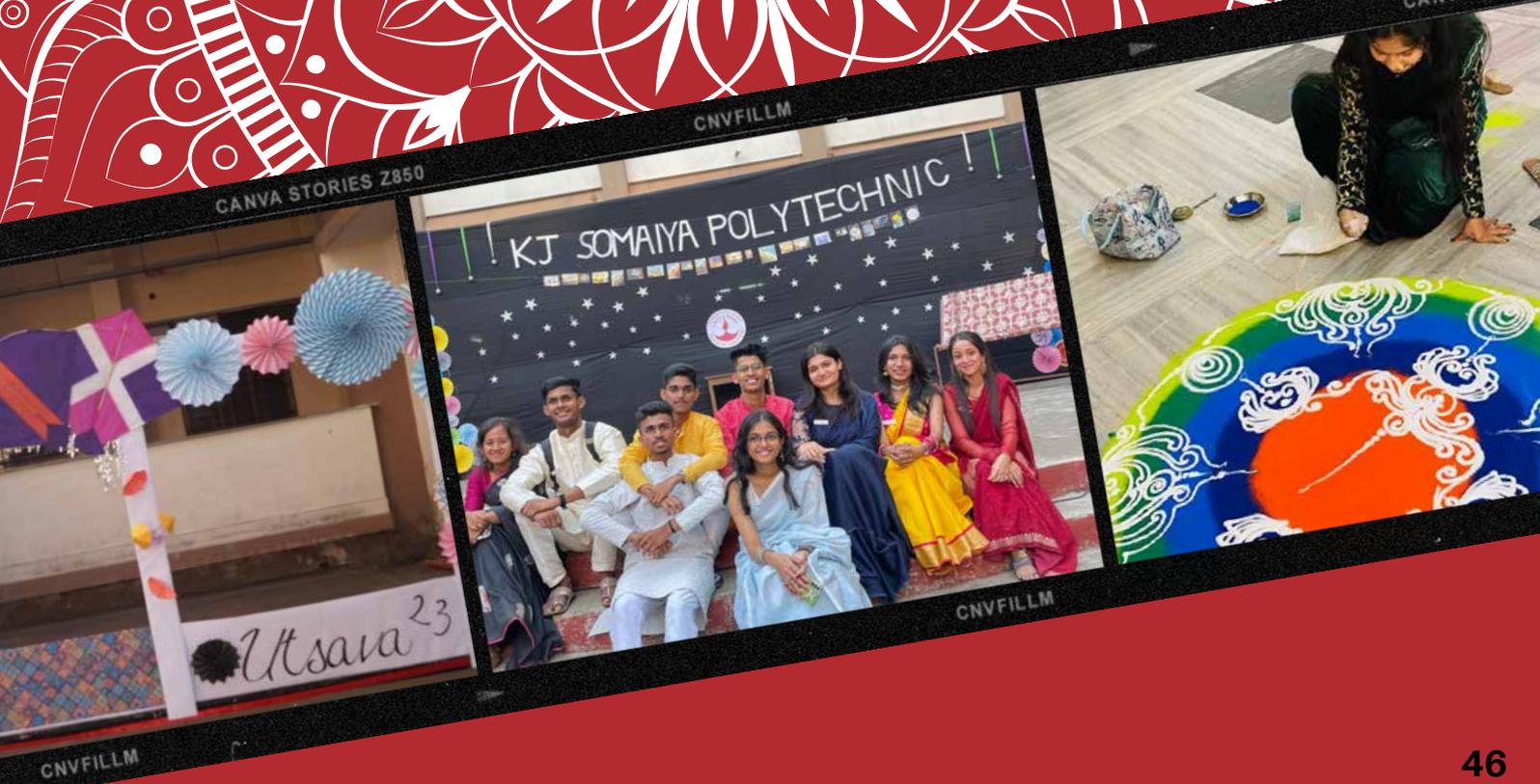




# TRADITIONAL DAY



# DAY 1!





# ***Bollywood Day!!***



# DAY 2!!





# FAIR DAY!!





# DAY 3!!

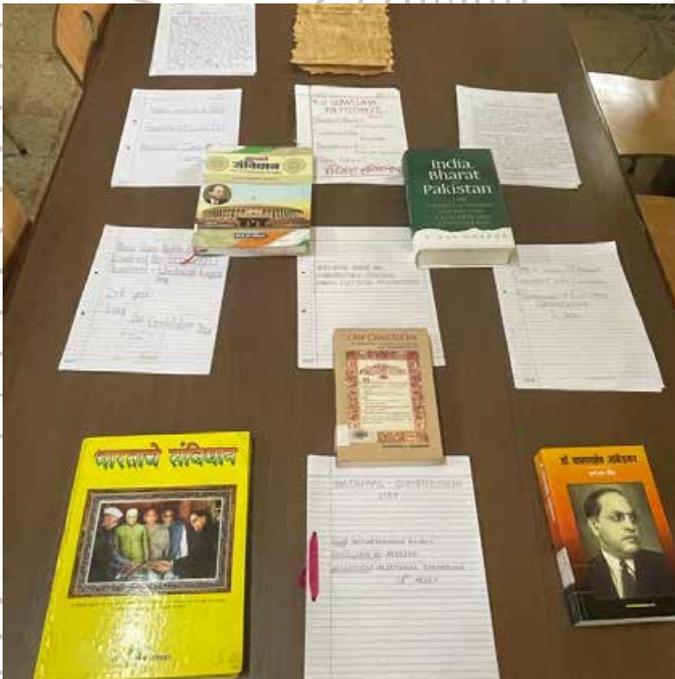


# Other Forum Events

- Workshop on Drone Technology



- Samata Parv



- Marathi Bhasha Divas





# **K.J. Somaiya Polytechnic, Vidyavihar (E), Mumbai 400 077**



**Diploma in Civil Engineering**

**Batch June 2023**



**Diploma in Computer Engineering Batch June 2023**





# **K.J. Somaiya Polytechnic, Vidyavihar (E), Mumbai 400 077**



## **Diploma in Electrical Engineering    Batch June 2023**



**Somaiya**

T R U S T

**K.J. Somaiya Polytechnic,  
Vidyavihar (E), Mumbai 400 077**



**Diploma in Ind Electronics Engineering Batch June 2023**





# **K.J. Somaiya Polytechnic, Vidyavihar (E), Mumbai 400 077**



## **Diploma in Mechanical Engineering Batch June 2023**



**Student Forum ( 2022-23 )**





