



SOMAIYA
VIDYAVIHAR

K J Somaiya Polytechnic



TANTRA VIHAR

2023-2024 

KJ SOMAIYA
POLYTECHNIC
- EST. 1963

K. J. SOMAIYA POLYTECHNIC

FRONT PAGE DESIGNED BY

Chinmay Shere

SYEE

राज्यगीत

जय जय महाराष्ट्र माझा, गर्जा महाराष्ट्र माझा
जय जय महाराष्ट्र माझा, गर्जा महाराष्ट्र माझा ॥धृ॥

भिती न आम्हा तझी मुळी ही गडगडणाऱ्या नभा
अस्मानाच्या सुलतानीला जबाब देती जिभा
सह्याद्रीचा सिंह गजर्तो शिव शंभू राजा
दरी दरीतून नाद गुंजला महाराष्ट्र माझा

जय जय महाराष्ट्र माझा, गर्जा महाराष्ट्र माझा ॥१॥

काळ्या छातीवरी कोरली, अभिमानाची लेणी
पोलादी मनगटे खेळती, खेळ जीव घेणी
दारीद्र्यांच्या उन्हात शिजला
निढळाच्या घामाने भिजला
देश गौरवासाठी झिजला

दिल्लीचे ही तख्त राखितो, महाराष्ट्र माझा

जय जय महाराष्ट्र माझा, गर्जा महाराष्ट्र माझा जय जय महाराष्ट्र
माझा ॥२॥

Campus Prayer

ॐ

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 लङ्घयते गिरिम् ।
यत्कृपा तमहं वन्दे परमानन्द माधवम् ॥३॥

ॐ प्रणो देवी सरस्वती वाजेभिर्वाजिनीवती धीनामवित्र्यवतु ।
ॐ चोदयित्री सूनृतानां चेतन्ती सुमतीनाम् ।
यजम् दधे सरस्वती ॥४॥

ॐ असतो मा सद्गमय । तमसो मा ज्योतिर्गमय ।
मृत्योर्मा मृतं गमय ॥५॥

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

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

ॐ शांतिः, शांतिः, शांतिः॥

Editorial Board

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OUR FOUNDER



**PADMABHUSHAN
PUJYA SHRIMAN KARAMASHI
JETHABHAI SOMAIYA**

16.05.1902 - 09.05.1999

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PRINCIPAL'S DESK



Dear Students,

The annual magazine of K.J. Somaiya Polytechnic, Tantravihar, is back with its latest edition. I am sure that you will appreciate the amazing journey of our institute, which has been elegantly documented in the 2024 edition of Institute magazine.

Tantravihar serves as a paramount document documenting the journey of the institute in the previous academic year. On one hand, it traces the various academic activities of the students, and on the other hand, it also serves as evidence of the co-curricular as well as extra-curricular activities of our vibrant teaching-learning community. It showcases the variety of abilities that add to our institute's liveliness and diversity. Our students' stories are honored here. They have achieved success in a range of fields, including academics, the arts, sports, and community service. You can see how our institute strives to instill in our students not just academic achievement but also integrity, compassion, and a strong sense of responsibility by reading through the pages of this magazine. This magazine is proof of the collaborative effort undertaken by each one of you. I would like to sincerely appreciate the mammoth effort undertaken by the Student's Forum, the Editorial Board, and all the contributing members of Tantravihar, 2024. Without your unyielding support, none of the accomplishments detailed on these pages would have been feasible.

I sincerely wish our magazine Tantravihar inspires you to be better versions of yourself.

Wishing you all the best.

Padmajabhanu Bandaru
Principal
K. J. Somaiya Polytechnic

Civil Engineering Department

Dear Students,

It's an immense pleasure for me to interact with you. I congratulate you for selecting your career in Engineering right from Diploma in

Engineering. It will give you a sound and fundamental knowledge. Hence, to begin, I suggest to build 4 C's in your career i.e. Confidence, Communication, Clarity of thoughts and Courage. Confidence will only come when you have in depth knowledge of what you want to study and can be only gained by Hard work. Communicating effectively is a must to transfer the orders

below the line and up to your superiors. The four principles of Communication must be followed. One should understand the ways of communication in the organization where you would like to work. Clarity will only come when there is clear and focused understanding of your emotions and experiences. Emotional well-being is a must in our life and also at workplace.

Courage is now a day's necessary due to change in technology. You should not have fear from exploring new opportunities and doing what is right. Mental strength is required in case of difficult situation or tough times. No situation is permanent. Soft or hard times will come and go. Always remember situation changes with times. I wish you all the best for a prosperous future ahead.

With Best Wishes

Jai Hind, Jai Maharashtra.

Rameshwar Tambat

HOD

Civil Engineering department



Civil Engineering Department Achievements

The students of the Civil Engineering Department have showcased their talents and dedication in various technical and extracurricular activities throughout the academic year 2023-24. Their active participation in events organized by prestigious institutions has brought pride to the department and the college. One of the noteworthy events in which Bro. Raunak Singh won the first Prize was Postrix, organized by VJTI, Mumbai. Students also participated in the state level paper presentation, computer-aided design (CAD) and engineering problem-solving competition, Model making for Bridge IT event along with sports and cultural activities.



Their participation reflects the department's commitment to fostering technical excellence and encourages more students to engage in such professional development opportunities.

The Civil Engineering Department continues to support and encourage students to take part in such events, enabling them to sharpen their skills and gain exposure to the competitive world of engineering.

Computer Engineering Department

Dear Students,

“We live in a rapidly evolving world, a society that is constantly changing, progressing, and advancing at an incredible pace. The influence of science, research, and technological advancements in our daily lives is all-encompassing and inevitable. Therefore, it is more crucial than ever to embrace these changes and be prepared for what lies ahead.

The automation and digitization of services have elevated industrial development, providing mankind with luxury and numerous conveniences.

Always remember that your primary objective as engineers is to keep yourselves updated with the latest knowledge. This will ensure that you remain relevant in this ever-changing world, allowing you to lead and contribute to the growth of our nation. By doing so, you will make both the institute and your parents proud. I wish the Department of Computer Engineering the best of luck!"



Charulata Ingle

I/c HOD

Computer Engineering Department.

Computer Engineering

Department Achievements

Students' Achievement:

Ronak Bhanushali represented Maharashtra at National Level in Skill India Competition 2024 and Won a Bronze Medal in IT Software Solutions for Business Category at Skill India 2024, New Delhi.



Ronak Bhanushali and Vinay Vora Secured First and Second Ranks respectively at State Level IT Software Solutions for Business at Skill India Competition 2024 held across all regions of Maharashtra.

CSI Office Bearers & Volunteers:

The IQ WAVE a State level Technical Quiz event, organized by the Computer Society of India (CSI), KJSP, took place on October 10th, 2023, and proved to be a resounding success. This engaging intellectual competition brought together a total of 62 teams, comprising 124 enthusiastic participants, for a day of challenging questions and mental acumen.

Office Bearers:

Faculty Coordinators: Charulata Ingle (I/C HOD), Rupali Patil, Varsha Kinge, Snehal Suryavanshi and Niti Patel.

Students coordinators: Sakshi Bhirud, Sakshi Mahale, Vedant Shetye, Vinisha Bhagwani, Meet Derasari, Paras Kanade, Ricky Parmar, Parth Savla, Anuj Rahatwal, Harsh Dhurat, Vinay Vora, Omkar Raval, ShreyaShelar, Yash Manjrekar, Kaustubh Khangate, Moksh Jain, Daksh Jain, Swayam Patel, Abdul H. D Dahodwala

TYCO students: Participated in Technical Paper presentation, Quiz competition, Technothon 2024 held across various colleges.

Participated in Project Exhibition, 'CiiA-3 Innovation Exhibition' held at Nehru Centre, Worli. Himani, Tulasi and Akruiti.

Winner in Code Carnival 5.0 and FC_24 at SBMP, Vedant Shetye & Sakshi Bhirud.

Participated in National level Project competition XZIBIT 2024, Himani, Tulasi and Akruiti

SYCO students:

SYCO students Organized State Level intercollege coding competition “Techmaze” at KJSP. This engaging intellectual competition brought together a total of 39 teams, comprising 78 enthusiastic participants, for a day of challenging questions and mental acumen.

Faculty Coordinators: Charulata Ingle (I/C HOD), Rupali Patil, Varsha Kinge, Snehal Suryavanshi and Niti Patel.

Student’s coordinators: Virti Panchanmai, Anuj Rahatwal

Winner and Runner up KBK 2.0 quiz competition held at Vivekanand Polytechnic, Chembur Winners Virti Panchamia Kavya Shetty, Mit Darji, Runner up Aryan Kanungo, Megh Mandalia, Jainam Dedhia.

Sports:

IEDSSA Winner in Volleyball, Girls at KJ Somaiya Polytechnic, (Riddhi Bhanushali and Drishti Rewale)

Winner in IEDSSA zonals in Badminton, Girls at KJ Somaiya Polytechnic, (Sehar Siddique)

IEDSSA Inter Zonals Runner up in Volleyball, Boys at KBP Kopergaon. (Sharman Shirke)

IEDSSA Inter Zonals Champions in Basketball, Girls at KBP Kopergaon (13 Zonal Teams participated). (Shreya Shelar, Bhumi Chotaliya, Garima Jadhav, Afza Khan, Vedika Maru, Riddhi Chauhan, Maarvi Joshi)

Winner of Essay Competition organized by Students’ Forum, Sneha Chorge (TYCO, 1st Prize) & Krutika Naidu (FYCO, Consolation prize)

Faculty Achievements:

Mr. Debraj Moulick delivered lecture as Resource Person on Importance of Science Fiction in NEP: UG and PG Level Curriculum at BAMU, Aurangabad.

Publication of Science Fiction Research Article in A Peer Reviewed International Research Journal, doi: 10.33329/ijelr.10.3.102.

Book Review of a Science Fiction text listed as reference material for the course of Literature and Science – II, (UAENG606A), and University of Mumbai.

Electrical Engineering Department

Dear Students,

It fills me with great joy in writing this message for you all. As we move forward in our academic journey, I want to take a moment here to emphasize for you the importance of two fundamental pillars of success, namely, Focus and Discipline. These are not just critical for you as a student but are the key players in shaping your life and your career.

In a world full of distractions, I understand very well that though staying focused in your set goal can be challenging, however without any focus you will keep on wandering both clueless and rudderless. So whether in the classroom or during self-study, giving your undivided attention to your study will not only improve your understanding of the subject but also

deepen your knowledge and improve your ability to apply it in real-life situations. It definitely will guide you through hard and trying times and help you achieve your academic and personal goals. Along with Focus, Discipline too plays an important role in our Success. After all success is finally the result of consistent effort, dedication, and self-control. Discipline plays a crucial role in accomplishing our goal and realizing our dreams. It always helps us in setting our strategies, making good use of our time, and remaining dedicated to our goals even when the going gets tough.

At this stage of your education, I urge you therefore to uphold these ideals, and bind yourself to a routine that puts your studies above everything else, keeping all distractions at bay, maintaining utmost discipline in your approach. In doing so, you will not only achieve academic success but also form lifelong habits that will serve you well throughout in every phase of your life.

Remember, the early bird always catches the worm—your efforts today will determine your success tomorrow. So stay focused, remain disciplined, and the future will reward your hard work. Let these remain your keepsake for all your life.

Wishing you all the best in your endeavors.

Dr. Barnali Motling

HOD

Electrical Engineering Department.



Electrical Engineering Department Achievements

The Electrical Engineering Department at K. J. Somaiya Polytechnic
We have achieved significant milestones over the past year, reflecting our unwavering commitment to academic excellence and holistic development. As the Head of the Department, I am immensely proud to share the remarkable accomplishments and activities that have highlighted our department's dynamic spirit and dedication.



This year, we had the honor of seeing three groups of our final-year Electrical Engineering students selected as finalists for the esteemed State-Level Diploma Exhibition, "DIPEX-2023," hosted at Sipna College of Engineering, Amravati.

Our students have also made us proud through their exceptional performance in various competitions. Hitesh Keni and Rupesh Sapkale achieved the Second Prize at a paper presentation competition held at SBM Polytechnic, earning a cash prize of ₹1500. This accomplishment underscores the high caliber of research and presentation skills nurtured within our department. Additionally, Onam Pandit, Uday Rawat and Manan Shah of TYEEactively participated in a Quiz competition focused on Renewable Energy, organized by VPM Polytechnic, Thane. Their involvement is a reflection of our department's dedication to addressing contemporary and sustainable engineering challenges

Our commitment to practical exposure is evident in the insightful industrial and educational visits we have organized. An enlightening visit to MSETCL Padgha was arranged for our third-year diploma students, offering them invaluable industry insights.



Furthermore, our first-year Electrical Engineering students had the opportunity to explore cutting-edge technology during an educational visit to the "Plasma Exhibition" at S.K. Somaiya College of Science, Vidyavihar, Mumbai. The professional development of our faculty members has also been remarkable. Mr. Uday S. Suryawanshi & Mr. Rohan M. Homkar participated in a One-Week Short-Term Training Program(STTP) on "Management of Change and Innovation," organized by NITTTR. Bhopal

Mr. Homkar was further recognized at the Maharashtra Growth Story Conclave and invited to host a Conference on the Agriculture Industry. His role as SPOC for the Smart India Hackathon 2023, alongside Mr. Uday Suryawanshi as the Department Coordinator, is a testament to our faculty's leadership and dedication.

Educational initiatives have been a cornerstone of our department's activities. Mr. Rohan Homkar conducted a successful 2-day educational video creation workshop for k. J. Somaiya Polytechnic and also delivered an expert lecture at SBM Polytechnic.



Additionally, Dr. Adil's expert lecture on Electric Vehicle further contributed to our department's academic excellence.



Our department's commitment to community and safety has been demonstrated through various initiatives. We organized an Eco Literacy Tour for SYEE students and held an Industrial Safety Poster Display Exhibition.



Mr. Homkar's role in organizing a Fire Extinguishers Demonstration for National Safety Day reflects our proactive approach to ensuring safety and awareness.

Our students have also achieved significant milestones, Two groups of our final-year Electrical Engineering students selected their working models Project From Top 100 Projects Of Maharashtra Displayed at CiiA-3 Innovations Exhibition (held on 31st Jan - 2 Feb, 2024 at Nehru Centre, Worli, Mumbai)



Hybrid and Smart Charging
Electric vehicle



Vertical Farming



The final year students of aided and unaided section visited Adani Thermal Power station at Dahanu. The contributions of our faculty members continue to shine. Mrs. Rashmi Kamde and Mrs. Priyanka Nimje facilitated student participation in the Maha Rojgar Melava.



Mrs. B. S. Motling's completion of her Ph.D. in Power Systems Harmonics are proud moments for our department. These achievements and initiatives highlight the dedication and hard work of our students and faculty, reinforcing the continued growth and excellence of the Electrical Engineering Department. As we celebrate these successes, we remain committed to pursuing even greater heights in the future.

Industrial Electronics Engineering Department

Dear students,

There are very fast global changes in the world and directly or indirectly they are affecting our life. So you should be always in the update of every change around us. Just completion of the qualification may not survive you in the future. But competence and confidence will give you success. Engineering is our one role in life. As human beings we have different roles in our family, society, nation. So becoming good and responsible human beings should be our goal. Discipline is needed in every part of life. There is



no alternative to hard work. Keeping yourself active is very important. Honesty is another quality needed by a person. Sometimes it looks like all surrounding is filled with corruption. But we are safely living in our country because in total there are more good people in the world than bad people. The problem is that bad people are active, organized and ready to come together for their vested interests. Hence the society is suffering because of their actions. Exactly opposite to this the behavior of the good people is there. Whether you are a believer in the almighty or an atheist as a human being it is necessary to live with human values. Good behavior is a quality of a human being and not because of fear of something bad happening. Human society is based on the work distribution and every person's duty is to contribute to the best of his full strength and capacity. It is a service to the nation. For this you should keep yourself active and able.

R. H. Ghadyalji
HOD
Industrial Electronics Department

Industrial Electronics Engineering Achievements

The department activities for the students involve different visits to industries, engineering college labs for advanced training, workshops, project competitions.

Apart from this the students have taken part in various extra curricular activities conducted by the students' forum. The IE girl students have secured first prize in box cricket and volleyball. In the same events boys were runners up. The final year students have taken part in career guidance fare at Thane which was conducted by Maharashtra government.

The department faculty are regularly doing programs to update their knowledge. Mr. Swapnil Tambe was part of the winning football team. He has conducted workshops of Ganapati making for both staff and students.



Nowadays technology is changing very fast. So an engineer must keep himself updated for his survival. The requirement of the student is to keep himself ready for taking the coming opportunity. Semiconductor industry is going to grow a lot in India. Person needs to fit himself for any situation.

Mechanical Engineering Department

This academic year has been marked by outstanding performance and remarkable achievements, thanks to the hard work and dedication of both our staff and students. The faculty's commitment to delivering high-quality education, coupled with their passion for fostering a stimulating learning environment, has been instrumental in our success. Our students have demonstrated better than previous years, not only in academic pursuits but also in co-curricular activities.



Together, we have achieved new milestones, making this a truly exceptional year for the department. I extend my deepest gratitude to the entire team for their tireless efforts and to the students for their perseverance and brilliance. This year stands as a testament to our collective commitment to growth, innovation, and excellence. Additionally, this year's placement results have been exceptional, with many students securing positions at top companies and forging promising career paths. As we look forward to the next academic year, I encourage our students to continue their dedication, stay curious, and embrace opportunities for growth. With focus and perseverance, they are sure to reach even greater heights. Let's continue to work together towards a bright and successful future.

A. V. Bhangé
I/c HOD
Mechanical Engineering Department.

Mechanical Engineering

Department Achievements

ACHIEVEMENTS & ACTIVITIES

- Received MSBTE Equivalence to the curriculum.
- Second batch of students successfully completed “Internship” in various industries. Some of the renowned MNCs companies where our students completed internship are Maruti Service center, Siemens Ltd, Voltas Ltd, Blue Star Ltd, BEST, Indian Railway workshop etc.
- Shri Nitin Soman, Our Alumni and General Manager (Marketing) 3B-the fiber glass company delivered an expert lecture on “Composite Plastics” for the students of Second Year.
- Students of Full Time and Part time Diploma created appreciable projects such as “TURBOJET ENGINE”, “INTELLEAGENT METAL DETECTOR [IMD] ROVER”, “Electromagnetic Braking system”, “Smart Dustbin”.
- Shri Kaustubh Saptashwa workshop superintendent completed his M. Tech in Production Tech. from VJTI Mumbai with 8.4 CGPI in the year 2022 .
- Students of Final Year won Second Award in State Level Project Competition held at Amravati by Akhil Bharatiya Vidyarthi Parishad in the category Mobility.

FACULTY ACHIEVEMENTS

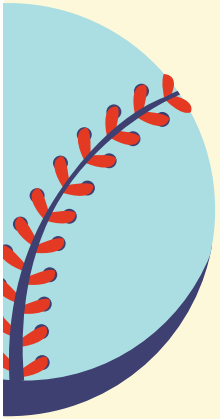
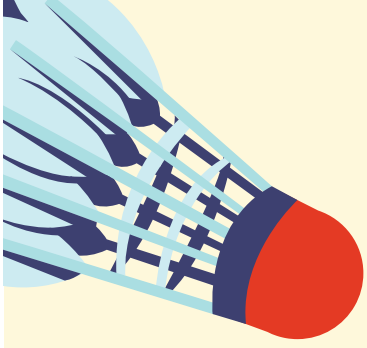
1. Shri. U. N. Palve

- The final year student’s project guided by Shri U. N. Palve won Second Award in State Level Project Competition DIPEX in April 2023; Project title Intelligent Metal Detector Rover held at Amravati by Akhil Bharatiya Vidyarthi Parishad in the category Mobility.

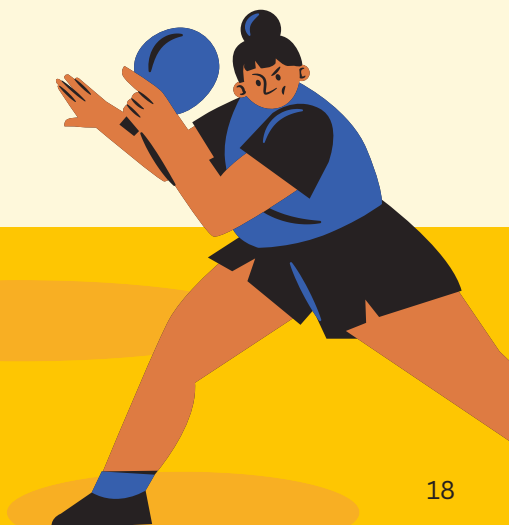
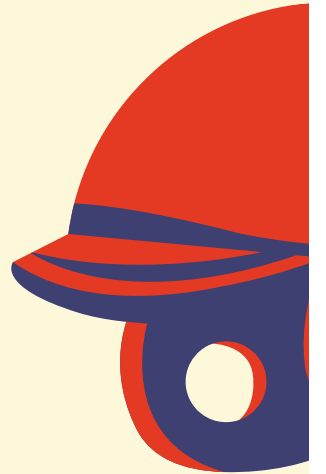
2. Shri P. R. Patil

- Published research paper in peer reviewed Scopus International Journal. (Q1 Category) in NOV 2022 (Volume 6, 218). Topic: Experiment Investigation in low temperature machining of hard material.
- P. Patil and P. Karande, “Experimental Investigations and Optimization of Machining Parameters in CNC Turning of SS304 Using Coolant at 0 °C,” J Manuf Mater Process, vol. 6, no. 6, Oct. 2022, doi: 10.3390/jmmp6060128. (Scopus indexed).

- P. Patil and P. Karande, “Effectiveness of synthetic coolant at 0°C on machining of SS304 with PVD coated TiCN tool to evaluate and compare tool wear and surface finish with conventional machining method,” Tribol - Mater Surfaces Interfaces, vol. 8, May 2023, doi: 10.1080/17515831.2023.2217399 (Scopus indexed, Taylor & Francis Publications)
- One week Industrial training from 17 April to 21 April 2023 on Ins Pneumatic And Electro-pneumatic Conducted by FESTO India sponsored by MSBTE
- One week Course in research in technical education conducted by NITTTR Chennai in August 2023



SPORTS SECTION

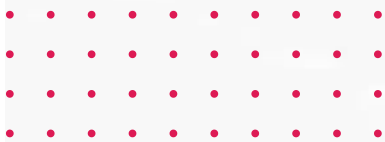


+ + + GLIMPSES OF IEDSSA EVENT! + + + + + + + + +

KJSP Triumphs at IEDSSA Zonal Sports Event: A Week of Thrills and Victories Under the esteemed leadership of Respected Principal Padmajabhanu Bandaru Madam , K.J. Somaiya Polytechnic (KJSP) proudly hosted the Inter-Engineering Diploma Students' Sports Association (IEDSSA) Zonal events on its campus. The week-long extravaganza, held from 23 to 27 January 2024, witnessed a vibrant display of athleticism and sportsmanship, with over 70 teams and 650 athletes participating in 7 exciting events.

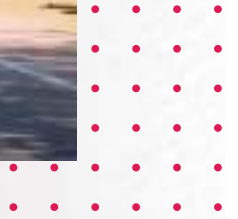
KJSP's dedication to excellence shown through as its teams bagged a staggering 5 First Prizes and 3 Runners-Up positions. This impressive haul puts KJSP firmly in the lead for the coveted "Best Institute Trophy" - a testament to the institute's unwavering commitment to fostering a culture of sports and well-being.

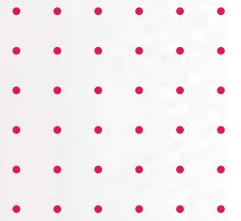
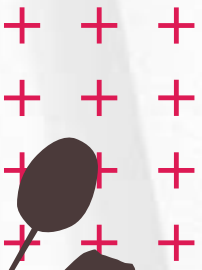
Ashok R. Yadav
(Sports Incharge, Student's Forum)





BASKETBALL

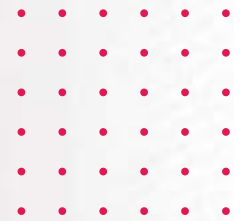




PRIZE DISTRIBUTION



Basketball, girls
(winners)

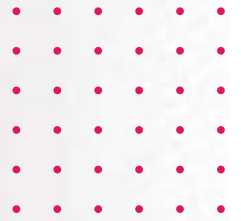


Volleyball, boys
(winners)





kabbadi ,boys
(runner up)

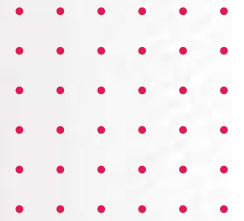


Basketball ,Boys
(runner up)



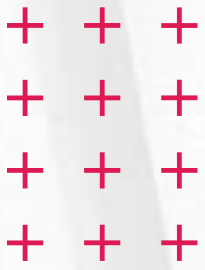


volleyball girls
(winners)



Badminton, girls
(winners)



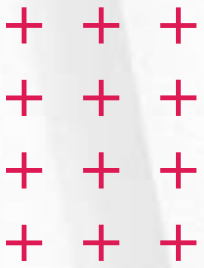


Nachiket Shirwadkar
Athletics
1st (400m)

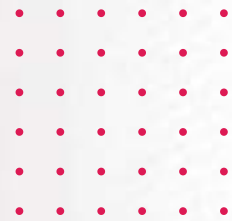


Aniket Pal
Athletics
1st (200m)





Toss womens cricket team
(2nd runner up)



Toss men's football team (Winner)





CREATIVE CORNER !

JOURNEY TO SUCESS

**Climb the steps one by one,
For one day it will be done
Your mind,your body and soul will sing,
Sucess is what I can achieve ,**

**No matter what comes your way,
Never decide to run away,
From problems,issues and complications,
For deep within you there is TRUE determination,**

**Never get disheartened if you fail ,
First attempt in learning is what it means
You can overcome once you've failed ,
If you are really keen!**

**Many more attempts you'll make,
Until it's your final take,
Then you'll see your goal not very far,
Now you realize your true potential and who you
really are**

SHRADDHA KOYANDE

विद्यार्थी ते नवउद्योजक

मार्गदर्शक : श्री. रोहन होमकर

शालेतील विद्यार्थी मोठी स्वप्ने पाहतात, परंतु जीवनातील विविध अडचणी त्या स्वप्नांना अनेकदा अडथळे निर्माण करतात. परिणामी, विद्यार्थी दिवास्वप्नांमध्येच फसतात आणि त्यांच्या स्वप्नांना वास्तविकतेत बदलू शकत नाहीत. याचे मुख्य कारण म्हणजे, अडचणींना विद्यार्थ्यांच्या किंवा लहान मुलांच्या दृष्टिकोनातून पाहतांना अनेक उपाययोजना सहज दिसतात, जे सामान्यतः "हे शक्यच नाही" असं वाटतं.

लहान मुले विचार करताना "नाही" हा शब्द त्यांच्या मनात नसतो, त्यांना कल्पनांना प्रत्यक्षात आणण्याचा अनुभव कमी असतो, तरीही त्यांना सर्व काही होऊ शकते असं वाटतं. 10,000 तासांपेक्षा जास्त विद्यार्थ्यांना शिकवण्याच्या अनुभवामुळे, मी म्हणू शकतो की विद्यार्थ्यांनी अडचणींना तोंड देण्याची आणि नवीन उपाय शोधण्याची क्षमता इतरांपेक्षा जास्त असते. तथापि, त्यांना त्यांच्या कल्पनांवर विश्वास वृद्धिंगत करण्याची आवश्यकता आहे.

या लेखात आपण पाहणार आहोत:

1. विद्यार्थी यशस्वी नवउद्योजक कसा होऊ शकतो?
2. त्याला कोणत्या अडचणी येऊ शकतात?
3. त्याने त्या अडचणींमिथून काय काय शिकावे?
4. आणि हे सर्व शिकून, आपल्या कल्पनांना उद्योजकतेचे पंख दिल्यानंतर, समाजामध्ये सकारात्मक बदल कसा घडवू शकतो?

विद्यार्थी मित्रांनो, जर तुम्हाला नवउद्योजक बनावचे असेल आणि तुमच्या कल्पनेला उद्योजकतेची साथ हवी असेल, तर सर्वप्रथम तुम्ही उद्योजकतेची माहिती घेणे आवश्यक आहे. उद्योजकता म्हणजे समाजातील अडचणींना सोडवण्यासाठी तुमच्या कल्पनांचा वापर करून तयार केलेल्या उपाययोजना प्रभावीपणे लागू करण्याची एक पद्धत आहे.

उद्योजक बनण्यासाठी आवश्यक गोष्टी:

- i. एक अशी समस्या असावी जी अनेक लोकांना भेडसावत आहे आणि ज्याचे समाधान तुम्ही देऊ शकता.
- ii. तुम्ही एक अनोखी कल्पना सुचवावी, जी पूर्वी विचारात घेतली गेली नाही किंवा आधीच्या कल्पनेची सुधारित आवृत्ती असावी.
- iii. तुमच्या उत्पादनाला किंवा सेवेला बाहकांची मोठी मागणी असावी, जी त्यांच्या समस्यांचे समाधान करत असेल.

विद्यार्थ्यांना त्यांच्या शालेय प्रोजेक्टद्वारा व्यवसायात रूपांतर करून फायदा होऊ शकतो. यासाठी, त्यांना काही कौशल्ये विकसित करणे आवश्यक आहे आणि व्यावसायिक शिक्षण घेण्याची इच्छा असणे महत्त्वाचे आहे. उद्योजकतेच्या मार्गावर पुढे जाऊन, तुम्ही तुमच्या स्वप्नांना प्रत्यक्षात आणू शकता आणि समाजात सकारात्मक बदल घडवू शकता.

उद्योजक होण्यासाठी आवश्यक कौशल्ये:

संवाद कौशल्य म्हणजे संगमल्य ब्राह्मकांशी प्रभावीपणे संवाद साधणे. यामध्ये अनेक मोह्तीवा समावेश आहे:

- सुसंगत संवाद: तुम्ही आपल्या विचारांना, उत्पादनांच्या वैशिष्ट्यांना आणि सेवेच्या लाभांना स्पष्ट आणि सोप्या भाषेत व्यक्त करणे आवश्यक आहे.
- ऐकण्याची क्षमता: ब्राह्मकांती गरजा, समस्यांवर लक्ष देणे आणि त्यांच्या फीडबॅकला गंभीरतेने घेणे हेही महत्त्वाचे आहे. ऐकण्याच्या कौशल्यामुळे तुम्ही ब्राह्मकांती समस्या समजून घेऊन तिला योग्य उत्तर देऊ शकता.
- भावनात्मक बुद्धिमत्ता: ब्राह्मकांतीच्या भावना आणि विंतेची ओळख करून त्यानुसार प्रतिक्रिया देणे, ब्राह्मकांतीच्या भावनांशी संबंधित असणे आणि त्यांच्या भावनात्मक गरजा पूर्ण करणे.
- प्रभावी विचारविनिमय: संवादाद्वारे ब्राह्मकांती त्यांच्या समस्यांचे समाधान करे मितळता येईल याची माहिती देणे आणि त्यांच्या समस्यांची प्रभावीपणे समजूत घालणे.

वेळेचे व्यवस्थापन म्हणजे आपल्या कामाचे नियोजन करणे आणि वेळेवर काम पूर्ण करणे. यामध्ये:

- प्राथमिकतेची यादी: कार्याची प्राथमिकता ठरवून त्या आधारे कामाचे आयोजन करणे. महत्त्वाचे आणि तातडीचे काम आधी पूर्ण करणे.
- समयपालन: सर्व कामांना ठरलेल्या वेळेत पूर्ण करणे, यामुळे ब्राह्मकांती वेळेवर सेवा मिळते.
- अधिक कार्यक्षमता: वेळेचा प्रभावी वापर करून कार्यक्षमता वाढवणे आणि वेळ वाया जाण्याचे टाळणे.
- तासांचे व्यवस्थापन: दिवसाच्या विविध कामांसाठी योग्य वेळ दिला पाहिजे आणि वेळेची गणना करून कामांचे विभाजन करणे.

अकाउंटिंग आणि फायनान्शियल मॅनेजमेंट म्हणजे आर्थिक बाबींचे व्यवस्थापन आणि निरीक्षण:

- बजेट बनवणे: खर्च आणि उत्पादाचे नियोजन करून बजेट तयार करणे, जेणेकरून आर्थिक स्थिरता राखता येईल.
- लाभ आणि खर्चाचे विश्लेषण: आर्थिक नफ्याची गणना करणे आणि खर्चाचे निरीक्षण करून नफ्यामध्ये सुधारणा करणे.
- आर्थिक अहवाल: नियमित आर्थिक अहवाल तयार करणे, जसे की बॅलन्स शीट आणि पॅ Profit & Loss Statement, ज्यामुळे व्यवसायाची आर्थिक स्थिती स्पष्ट होईल.
- संपत्ति व्यवस्थापन: व्यवसायाची संपत्ति आणि देयके व्यवस्थापित करणे, तसेच, दीर्घकालीन आर्थिक योजनांची आरंभणी करणे.

विक्री आणि मार्केटिंग कौशल्ये ब्राह्मकांती आकर्षित करण्यासाठी आणि विक्री वाढवण्यासाठी महत्त्वाची आहेत:

- विक्री रणनीती: प्रभावी विक्री तंत्रज्ञान वापरणे, ब्राह्मकांती आकर्षित करणारी विक्री तंत्रे लागू करणे.
- ब्रँड प्रमोशन: व्यवसायाच्या ब्रँडची ओळख वाढवण्यासाठी मार्केटिंग अभियान चालवणे, जसे की डिजिटल मार्केटिंग, सोशल मीडिया वापरणे.
- ब्राह्मकांती अग्रास: ब्राह्मकांतीच्या गरजा आणि प्राधान्ये समजून घेणे आणि त्यानुसार मार्केटिंग योजना तयार करणे.
- विक्री प्लॅनिंग: विक्री लक्ष्य निश्चित करणे आणि त्यांना गाठण्यासाठी योजना तयार करणे.

नफा आणि तोटा म्हणजे व्यवसायाच्या आर्थिक यशाची मोजणी:

- नफा विश्लेषण: व्यवसायातील नफा उत्पन्न-खर्च याचे विश्लेषण करणे, हे तपासणे की व्यवसाय फायदेशीर आहे का.
- तोटा ओळखणे: व्यवसायातील कोणत्या मदकंमुळे तोटा होतो ते समजून घेणे आणि त्यास सुधारण्यासाठी उपाययोजना करणे.
- उत्पन्न वाढवणे: नफा वाढवण्यासाठी नवीन घोरणे तयार करणे आणि खर्च कमी करणे.
- लाभप्रदतेचा आढावा: व्यवसायाच्या लाभप्रदतेचे नियमितपणे मूल्यांकन करणे आणि त्यावर कार्यवाही करणे.

भविष्यकाळातील संधी आणि अडचणी यावर जागरूकता:

- संधीची ओळख: उद्योगाच्या संभाव्य संधी आणि नवीन टेंड्स ओळखणे, यामुळे व्यवसायाचा विस्तार किंवा नवीन बाजारपेठा शोधता येतात.
- अडचणीचा सामना: भविष्यकाळातील संभाव्य अडचणी आणि समस्यांची पूर्वकल्पना घेणे, त्यासाठी पूर्वीच उपाययोजना करणे.
- जोखमीचे व्यवस्थापन: संभाव्य जोखीम ओळखणे आणि त्यासाठी उपाययोजना तयार करणे.
- परिस्थितिकीय बदल: बदलत्या बाजारपेठेतील परिस्थिती आणि ग्राहकांच्या आवडींचे अवलोकन करून आवश्यक बदल करणे.

तुम्ही किंवा तुमच्याजवळील विद्यार्थी जर व्यवसाय सुरू करायचा विचार करत असाल, तर बिझनेस प्लॅन तयार करणे आवश्यक आहे. बिझनेस प्लॅनमध्ये काही महत्त्वाचे मदक आहेत जे तुमच्या व्यवसायास स्पष्टता देतात. तुमच्या व्यवसायाबद्दल स्पष्टता असली तर तुमच्या ग्राहकांपर्यंत पोहोचण्यापासून कोणीच शंभू शकता नाही.



ARYAN SANDIP BODKE, TYEE

A Wall of Silence

Sometimes you don't need a mirror you need a
Wall that would listen to you and never
Judge or reflect back...

A wall where you can cry out loud and it
Won't ever tell you that you are loud.

A wall where you throw out your feelings
It is not necessary to always advise the

Person coming to you with all this worries,
He might just be there because, he wants a listener.

In a world full of loud speaker try being someone's
listener ,

In a world full of loud mirrors try being someone's Wall of
silence.

Human are meant to be social animal but,

These animal are trying to maximise the
use of their brains and,

Hence sometimes forget their ability to prioritise and
Validate their emotions,

And these starts the battle of emotions,
And intelligence where emotions lose and
Intelligence wins.

These emotions stack up and flood the eye,

Then to stop this flood you need,

A Wall Of Silence..

KASHISH KHAPEKAR



RAJLAXMI KUMAVAT, FYCE



DAKSH JAIN ,TYCO



DAKSH JAIN ,TYCO



SWAYAM KADAM, FYCE



SOHAM NARAYANKAR, FYCO



KUNAL EAGDE, TYME



DAVID JOEL, SYEE

आईचे ऋणानुबंध

बाळ रांगले रांगले, आईच्या खुशीत
कस रुजल ते बाळ, त्या सुंदर उदरात

बाळा हवी मायेची छाया, हवी आईची माया
सर्व कुटूंब सुंदर, त्यात आजीचा गजर

बाळा घेण्या मांडीवरी, होई तीची घालमेल
चक्क बसल्यावाणी कीर्तनास, मग्न होई त्या बाळात

त्या तिमीर-रात्री, चंद्र-चांदण्याच्या सोबती
ते मग्न होत आभाळ, लिहिण्यात त्याच नाव

त्याला होई घाई खूप, त्या रंगल्या डावात
कस रुजल ते बाळ, त्या सुंदर उदरात

बाळाच होता मूल, होई मुलाच पोर
हातपाय रोवुनी घरात, उभ राहिल आनंदात

गात आनंदात गीत, कौलारू छपराच्या आत
कस रुजल ते बाळ, त्या सुंदर उदरात

VIKAS KHARAT ,TYEE

Research Paper

Blockchain Technology

Blockchain is a method of recording information that makes it impossible or difficult for the system to be changed, hacked, or manipulated. Blockchain is a decentralized and distributed ledger technology that enables secure and transparent record-keeping of data. Here are some basic concepts and features of blockchain.

Keywords: Blockchain, Decentralized System, Security

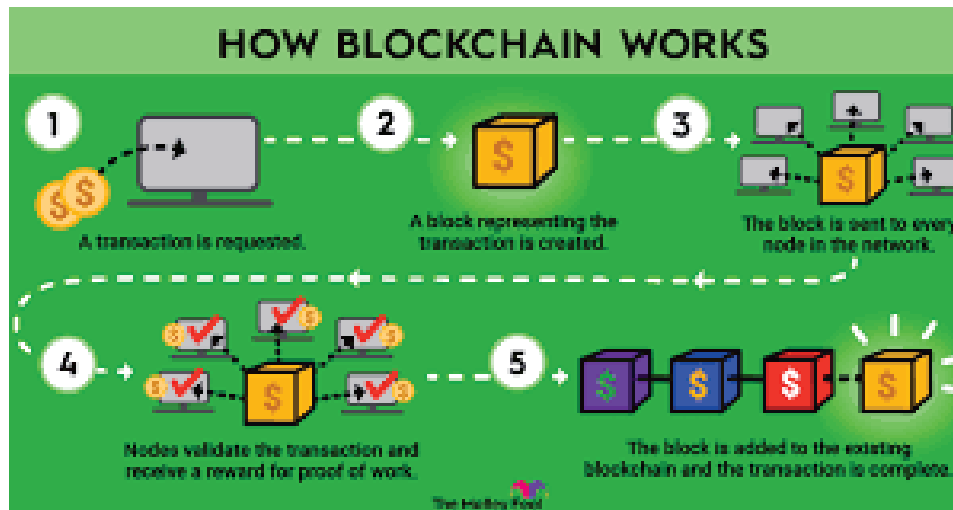
CONCEPT:

Decentralization: Unlike traditional centralized systems, blockchain operates on a network of computers (nodes) distributed across the globe. Each node has a copy of the entire blockchain, and no single entity controls the entire network.

Blocks: Data is grouped into blocks, and each block contains a list of transactions. These blocks are linked together in chronological order, forming a chain. Each block contains a reference to the previous block, creating a secure and tamper-resistant structure.

Consensus Mechanism: To agree on the state of the blockchain, a consensus mechanism is used. The most common mechanism is Proof of Work (PoW), where participants (miners) solve complex. Validate transactions and create new blocks. Another mechanism is Proof of Stake (PoS), where validators are chosen based on the amount of cryptocurrency they hold and are willing to "stake" as collateral.

Cryptographic Hash Functions: Each block contains a unique identifier called a cryptographic hash, generated by a mathematical algorithm. This hash is based on the block's content and the hash of the previous block, making it nearly impossible to alter a block without changing all subsequent blocks.



Immutable Ledger: Once a block is added to the blockchain, it is extremely difficult to modify or delete the information within it. This immutability ensures a high level of security and trust in the data recorded on the blockchain.

Smart Contracts: Smart contracts are self-executing contracts with the terms of the agreement directly written into code. These contracts automatically execute when predefined conditions are met, providing automation and efficiency in various applications.

**ADHYATMIKA GODVINDE
HARSHAL GAWADE ,SYCO**

STUDENT'S FORUM 23-24

This Year Students' Forum geared up for the vibrant and energetic Garba event as part of their cultural fest, Rass Garba. The event aimed to celebrate traditional Indian culture, promote community bonding, and provide a platform for students to showcase their talents. The Student's Forum successfully organized a Polytechnic Cultural Fest UTSAVA 2024. 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 were organized 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 Electrical 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. 56TH Annual Day, the most anticipated event of the year, was celebrated on March 16, 2024. Since its inception, the Annual Day has been celebrated on open ground 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 April 15, 2024. 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 2023-2024. 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, Padmajabhanu Bandaru, Secretary of the Students' Forum, without whose all-encompassing support none of the activities would have been a success.

Rashmi Kamde
(Chairperson, Student's Forum, KJSP)

MEET OUR TEAM!



Padmajabhanu Bandaru
Ex Official
Chairperson Students' Forum



Rashmi Kamde
Students' Forum Chairperson

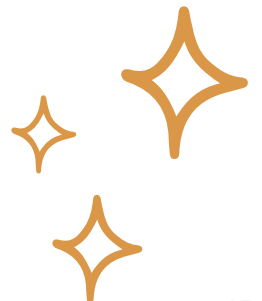


Debraj Moulick
Students' Forum Vice Chairperson

Ashok Yadav
Students' Forum Sports Incharge



Siddheshkumar Gajula
General Secretary





Harsh Dhurat
Joint Secretary



Jayesh Ranaware
Joint Secretary



Paras Kanade
Cultural Secretary



Marium Khan
Cultural Secretary



Prajwal Jadhav
Outdoor Game
Secretary



Tejas Panchal
Indoor Game
Secretary



Samruda Pillai
Ladies
Representative



Prapti Chaware
Magazine Secretary



Aman Pandit
Social media team



Anurag Gupta
Social media team



Amitesh Chaudhari
Social media team



Vivek Kumbhar
Institute Ambassador



56th Annual



Day



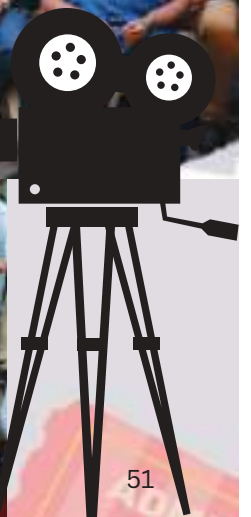
Day 1



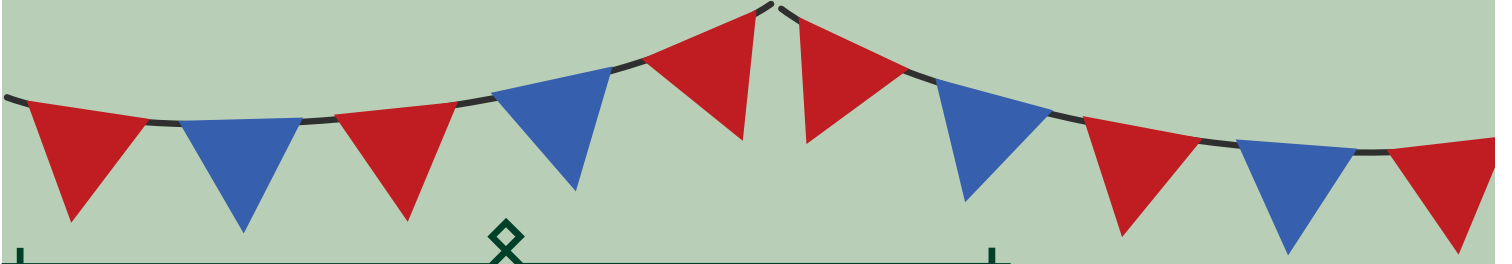
Shubharambh



Bollywood Day







Day-3 Akhari Jung



K.J. SOMAIYA POLYTECH

UTSAVA 24



Marathi Bhasha Divas



Entwined hands



Raas



Garba



Tree Plantation Drive







**K.J. Somaiya Polytechnic,
Vidyavihar (E), Mumbai 400077**



Diploma in Civil Engineering

Batch June 2024





**K.J. Somaiya Polytechnic,
Vidyavihar (E), Mumbai 400077**



Diploma in Computer Engineering

Batch June 2024





**K.J. Somaiya Polytechnic,
Vidyavihar (E), Mumbai 400077**



Diploma in Electrical Engineering (Aided)

Batch June 2024





T R U S T

K.J. Somaiya Polytechnic, Vidyavihar (E), Mumbai 400077



Diploma in Electrical Engineering (Unaided)

Batch June 2024





**K.J. Somaiya Polytechnic,
Vidyavihar (E), Mumbai 400077**



Diploma in Industrial Electronics Engineering Batch June 2024





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Batch June 2024



Students Forum (2023 - 2024)





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