



Shree Rahul Education Society's (Regd.)

SHREE L. R. TIWARI COLLEGE OF ENGINEERING

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RAW INK MAGAZINE 2024

#ISSUE 17

“EMBRACING INDIVIDUALITY
ADVANCING TOWARDS GREATNESS.”

Our PATREONS



SHRI. L. R. TIWARI
• FOUNDER
CHAIRMAN



SMT. KANTI L. TIWARI
PRESIDENT



SHRI. RAHUL TIWARI
SECRETARY



SMT. KRISHNA TIWARI
JT. SECRETARY



MR. UTSAV TIWARI
COO

Bouquets of Gratitude

Engineers are individuals who utilize their intellect and creativity to explore and shape the world around us. While many perceive engineering as a simple endeavor, it is a multidimensional discipline that encompasses a vast array of knowledge. From understanding complex concepts to navigating moral dilemmas, engineers analyze the intellectual fabric of our society. At SLRTCE, our vision runs deep, and our mission is straightforward: to deliver excellence and quality by transcending innovation and embracing entrepreneurship in the field of engineering.

Despite the benefits of a college degree, abundant opportunities, and upward mobility, engineers are often undervalued and face disparities compared to their counterparts in developed countries. To combat this, Shree L. R. Tiwari College of Engineering, since its establishment in 2010, has been organizing numerous national-level programs in science, engineering, technology, and management at both undergraduate and postgraduate levels. This invaluable experience has not only enhanced our qualifications but also instilled in us the confidence to flourish as professionals. By gaining hands-on experience prior to graduation, we continuously build knowledge, skills, and a robust professional network that will continue to thrive.

Through this 14th issue of Raw Ink, our entire team pays a heartfelt tribute to our esteemed management, who is the backbone of our institution.

We express warm and sincere gratitude to our honorable chairman, Shri Lallan Tiwari, who fearlessly embarked on an educational venture with tremendous enthusiasm, connecting the underprivileged and needy individuals to the sophisticated sector of society. His unwavering dedication is the driving force behind this institution, and he attributes our success to one crucial element - commitment. Leading by example, he personally invests in the functioning of SLRTCE by continuously monitoring the grassroots affairs.

We are immensely grateful to our respected honorable secretary, Shri Rahul Tiwari, a youth icon with an extraordinary nature and dynamic enthusiasm. His forward-thinking approach is evident in the introduction of innovative and progressive educational techniques, starting from grassroots education and extending to higher professional courses. His presence inspires us and compels us to emulate his conduct as we grow. Kudos to our visionary secretary, who envisioned this very institute!

We consider ourselves truly blessed to have Smt. Krishna Tiwari as our honorable joint secretary. She lives by Rabindranath Tagore's noble saying, "A lamp can never light another lamp unless and until it continues to burn its own flame." Her encouragement and support have played a pivotal role in the successful completion of every endeavor. We greatly value her willingness to delve into the depths of a student's personality and understand the challenges faced during growth and learning.

We extend a debt of gratitude to our honorable COO, Mr. Utsav Tiwari, who not only paves the way for us but also helps us overcome every hurdle. His unwavering assurance that our efforts will bear fruit is precisely what we need to sustain ourselves in this ever-expanding and dynamic field.

As Eddie Canton rightly remarked, "It takes 20 years to become an overnight success!" We pledge to remain steadfast in our goal of propelling SLRTCE to great heights. With the inception of Raw Ink, our vision is already set to communicate to every reader that, for us at SLRTCE, innovation and excellence are inseparable.

- SLRTCE Team

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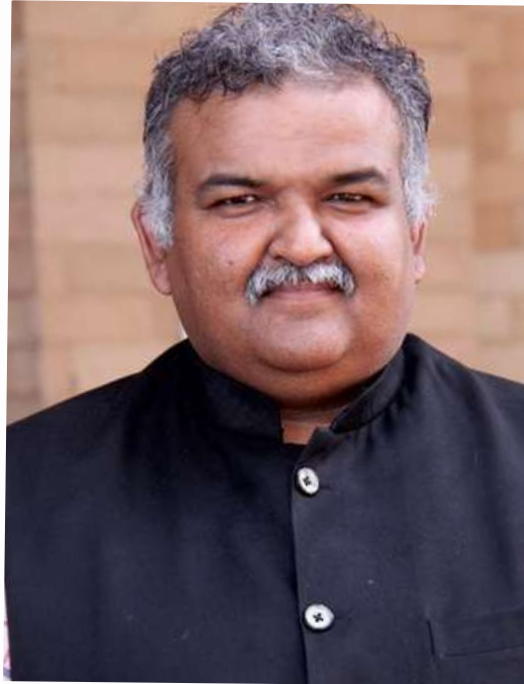
ABOUT SLRTCE

Shree L. R. Tiwari College of Engineering, established in 2010, holds the distinction of being the pioneering engineering institution in the Mira-Bhayandar region. Over the years, the college has consistently nurtured students, empowering them with the necessary skills and knowledge to confidently embark on their professional journeys. With a steadfast commitment to excellence, the college has fostered an environment that encourages students to envision their potential, cultivate their talents, and thrive in the dynamic landscape of the rapidly expanding industry. We deliver the best learning experience through a variety of programs that go beyond regular academics, transforming young minds into strong personalities and equipping them with necessary skills in aptitude, research, communication, innovation and entrepreneurship. The college provides special attention to the needs of differently abled students and also provide Merit based scholarship to needy students.

SLRTCE IS A PRIVATE, SELF-FINANCING INSTITUTION

- APPROVED BY AICTE, NEW DELHI
- APPROVED BY GOVT. OF MAHARASHTRA
- AFFILIATED TO UNIVERSITY OF MUMBAI
- NAAC ACCREDITED IN YEAR 2019.
- NBA ACCREDITED PROGRAM (COMPUTER ENGINEERING) IN YEAR 2021.
- FIRST AND ONLY COLLEGE TO HAVE CRYPTOCURRENCY INVESTIGATION LAB IN YEAR 2022.
- HAVE BLOCKCHAIN TRANSCRIPT AUTHENTICATION SYSTEM IN YEAR 2023.

Principal's Message



Assuming the role of Principal at a private Engineering College in the current context presents notable challenges. This position requires a persistent commitment to excellence in the teaching-learning process, as well as the creation of a comprehensive

environment fostering students' holistic development through equitable access to co-curricular and extracurricular opportunities. Additionally, it involves the establishment

of strong industry affiliations to bolster placement prospects and foster an entrepreneurial culture within the institution. At SLRTCE, we confront this challenge with a well-structured five-year vision plan. Within the initial six months alone, we take pride in introducing groundbreaking industry-relevant labs, with a focus on cryptocurrency investigation, offering Blockchain-enabled transcripts to students, inaugurating a state-of-the-art cyber security lab, launching a drone lab, expanding IoT to encompass IOB (Internet of Behavior), and embarking on various other captivating initiatives.

This transformative journey, spanning five years, demands steadfast support and cooperation from all stakeholders, including students, faculty, and non-teaching staff. We are confident that all members of the SLRTCE community, encompassing students and parents, will take pride in their association with our institution. Therefore, I respectfully call upon all stakeholders to unite in support of the challenge I have wholeheartedly embraced as Principal.

Dr.DEVEN SHAH
Principal of SLRTCE

Vice Principal's Message



In my perspective, the path to excellence necessitates the cultivation of certain qualities in our lives. One crucial quality for attaining success is discipline, as it establishes an organized framework that serves as the initial stride towards achievement. In the realm of academics, time assumes a paramount role, as it empowers students to enhance their skills.

Consequently, students become punctual and dedicated in their endeavors, both academically and in life. Persistence emerges as a vital factor for triumph, as students must exhibit unwavering determination in order to realize their aspirations. Moreover, the virtue of obedience holds great significance in the pursuit of excellence, as it enables students to glean invaluable insights from teachers and mentors, thereby gaining a deeper understanding of real-world dynamics. To excel, students should consistently endeavor to connect engineering concepts with real-world examples, facilitating a more comprehensive comprehension of the subject matter.

Dr. Umesh Bhadane
Vice Principal of
SLRTCE



Achievements

SLRTCE 2023-24

****Represented SLRTCE at 24 Hours National Hackathon at SJCEM and won 1st place with prize money ₹ 30,000 along with Internship At Regial Infotech****



****Secured 2nd Rank with prize amount of 15000 in National Project Competition And Demonstration held at Gharda Institute of technology, ratanagri****



I. Won 1st Prize at VCET's National Project Competition At Vidyavardhini's College of Engineering, Vasai with prize money of ₹ 10,000.



2. 1st runner up at Hackstomp 5.0 held by Universal college of Engineering, Vasai with price money ₹ 10,000



Jayantkumar Tiwari, Siddhesh Vaishya, Ambuj Pandey and Shivam Upadhyay From SE-IT Participated in the 24 hour national level techathon 2024 organized by innovation foundation, Pune



Rishi Dhakad , Pratik Dwivedi , Harsh Jadhav and Nikhil Joshi from SE-IT participated in the 24 hour hardware hackathon (Unplugged I.O) organized by DJSCE (IETE- ISF), Vile Parle



College Of Social Work (Autonomous), Nirmala Niketan had organised the Sports Competitions through its Project "Anubhav Youth Development Centre". In which Mr.Ravi Sanjaykumar Jaiswal from SE.IT has won 1st Prize in Chess Competitio



Vansh Gussain secured 1st rank in Devil's Walk at VIVA College , 2024



Certificate of Achievement

is to certify that

Vansh Gussain (Shree. L.R. Tiwari College)

has demonstrated exceptional skills and is recognized as the winner of

Fashion show event securing 1st place

Mediathon 2024, conducted on 16 and 17 January 2024. Your dedication, perseverance and outstanding performance have set you apart, making you a true champion of the event for the academic year 2023-24.

We thank you for making Mediathon a huge success!

Plavendran
Principal
Fr (Dr) Plavendran Irudayassamy

Vansh Gussain had demonstrated exceptional skills and won the 1st prize in Fashion Show , Treasure Hunt and music video in Mediathon 2024 at St.Pauls College for Women

I. Students Participated in Hackaton The Sanctuary of Innovation : HackHaven I.O conducted by St. Francis Institute of Technology, Borivali, Mumbai from 18th to 20th March 2024.



I.A Project competition, Oscillations 2024 under IETE was conducted on 8th April 2024 from 2pm to 5pm.





I.Faculties of EXTC department Mrs. Zainab Mizwan and Mrs. Shruti Patil got an opportunity to deliver session for Indian Navy at INS HANU for the IT Manager Course (ITMC)

Jay Kadam



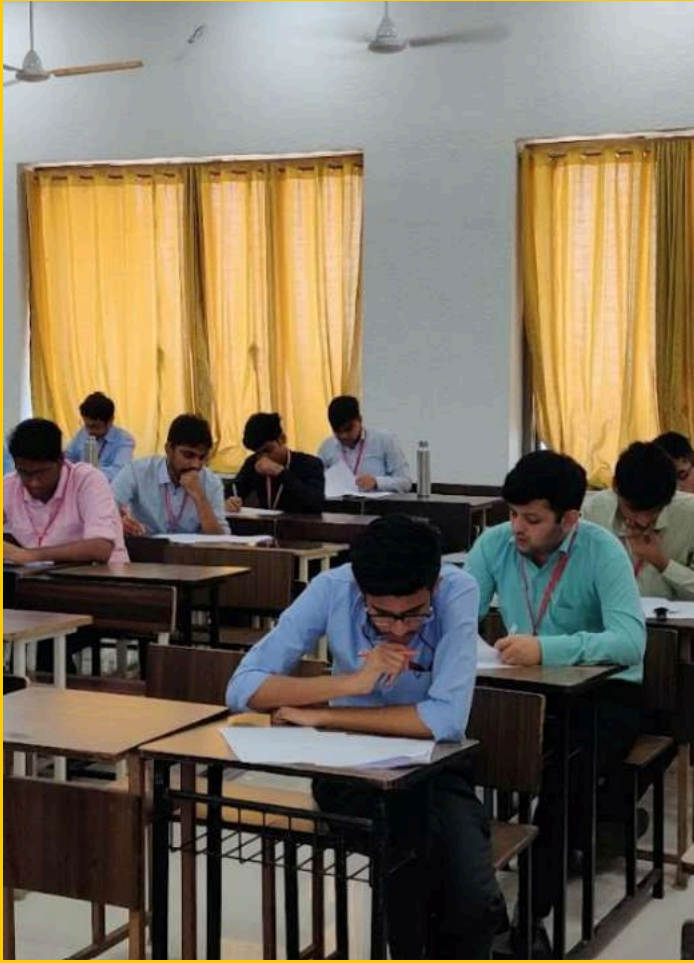
✨ Greetings of the Day ✨

Our BE Mechanical Engineering student JAY KADAM has WON the MALLA YUDDHA MMA event (Mixed Martial arts) held at *Kerala, on 21th June,2024

This is very risky and challenging sport in which sometimes you have to endanger your life.

Congratulations 🎉 JAY 🎉

KEEP IT UP



TNP @ SLRTCE

SLRTCE 2023-24

Training and Placement Cell

The Training & Placement Cell at Shree L.R. Tiwari College of Engineering. Training and Placement is a vital department in the college and is constantly striving to provide assistance to the students in their efforts to probe for employment. It also caters to the needs of various organizations to conduct the interviews. It plays an important role in counseling and guiding the students for their successful career placement. It arranges various technical and soft skills programs which augments the skills and increases the confidence of the students when facing the various tests and interviews conducted by the companies and to meet companies expectations. The Training and Placement Cell takes pride in offering student services like consultation on a wide range of issues such as employment, career planning, opportunities, etc. Thereby, preparing students effectively for their career to make them competent. Training and Placement Cell operates year-round to facilitate contacts between graduates and Industry.

THE PLACEMENT PROCESS HAS THE FOLLOWING ELEMENTS.



OBJECTIVES AND ACTIVITIES OF T&P

OBJECTIVES

- Providing training to meet the expectations of the corporate world.
- To probe for employment for all students.
- To instill confidence in students and develop a positive attitude.



ACTIVITIES

- Organize technical and non-technical programs for the students.
- Invite professional trainers to provide technical and soft skills training.
- Take feedback from the companies coming for placement.
- Arrange Training programs for soft skills and for interview facing skills for the students using institutional and external expertise.
- Invite reputed industries & organizations in the campus of the institute for the placement of students.
- Arrange Industrial visits and seminars for students to provide them practical scenario.

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And Beyond... **ZEUS LEARNING**
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OUR PRIME RECRUITERS

The Training and Placement Cell provides rigorous training to enable budding engineers to face cutting-edge competition in the corporate world. It also plays an important role in counseling and guiding the students and in arranging various technical and soft skills programs which augment the skills and increases the confidence of students when facing various tests and interviews conducted by the companies.

The Training and Placement Cell takes pride in offering student services like a consultation on a wide range of issues such as employment, career planning, opportunities, etc. thereby preparing students effectively for their careers. Almost 80% of eligible students are placed every year. Our prime recruiters are TCS, IBM, L&T Infotech, Tech Mahindra, Wipro, Reliance Communications, Neebal Technologies, Cognizant, Iksula Services Pvt. Ltd., Paramatrix, Genpact, and many more. Students every year participate in pool campus drives and most get placed on our own campus with successful attempts at the interviews.

The training and placement cell is a necessary aspect for a student while getting enrolled in any college. The Training and Placement Cell plays a significant role in locating job opportunities for Under Graduates and Post Graduates passing out from the college. Training and Placement department incessantly works hard throughout the year to train the students so as to make them employable. The department has designed training courses at various levels for soft skills training programs, employability enhancement training, campus recruitment training, English Speaking training etc. For this, they remain in touch with reputed firms and industrial establishments. The Placement Cell operates to facilitate contacts between companies and graduates. Result is, the number of students placed through the campus interviews is continuously increasing.



Guidance For Campus Placement

The main objective of campus placement is to identify & recruit desirable & efficient workforce at the early stage itself. Preparation make candidates further trained as per the requirements of the company. Campus placement not only reduces the time & effort of students in finding their desired jobs at an individual level. It also opens a wide range of opportunities for candidates to excel in the field of their interest right after completion of their studies.



To begin the job journey, a student needs to begin as a fresher and learn about the industry and grow forward for their dream job/companies. Campus placements make the step easier as it lets students compete in a simple environment with simple to understand rounds. The session cleared doubts regarding the steps and process of the recruitments, and suggested methods to clear every round.



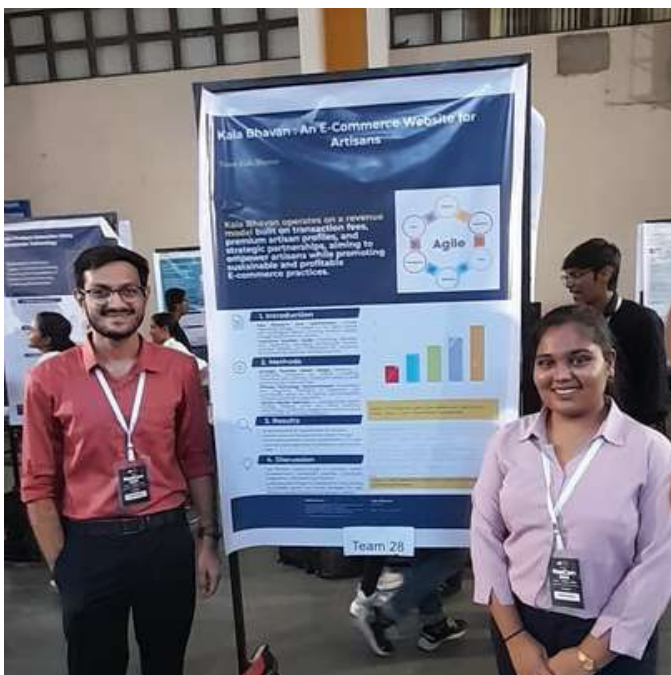


Technical Events

SLRTCE 2023-24

AVISHKAR

2024



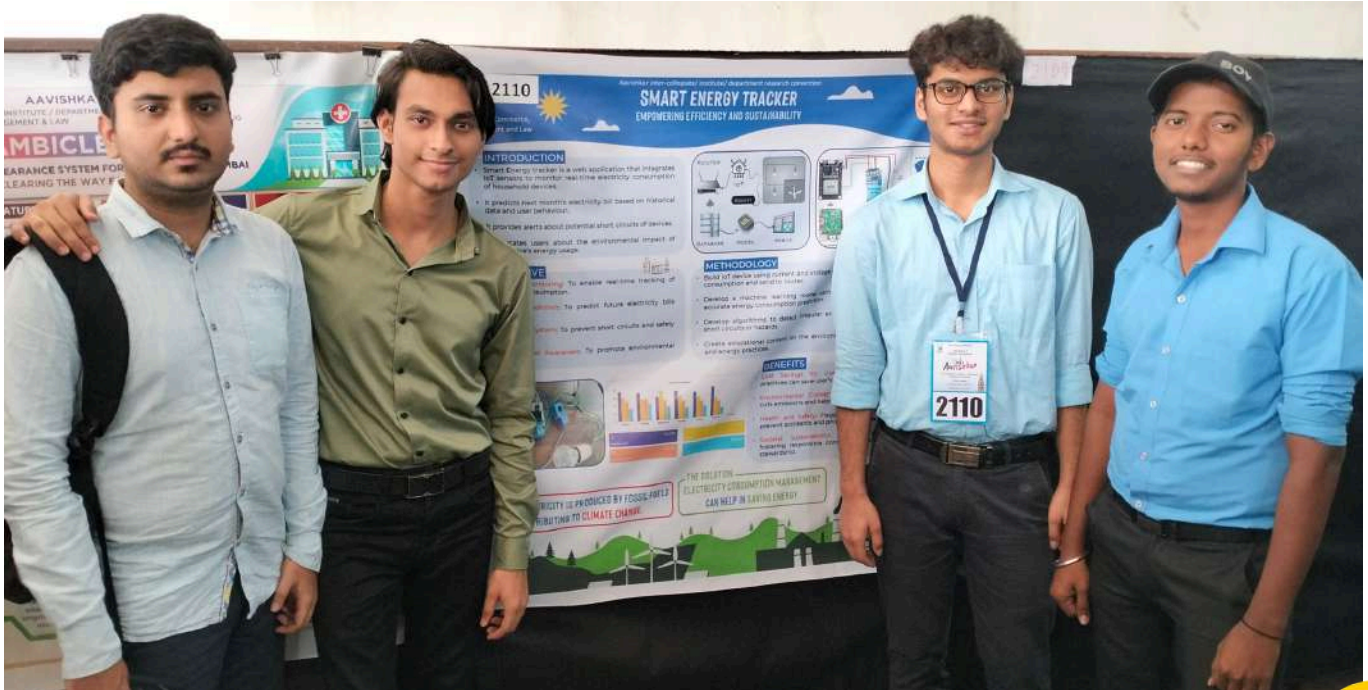
The Avishkar is an initiative by the Mumbai University to harness the creative and innovative potential of students in solving real-world challenges faced by various government departments and organizations. This policy outlines the guidelines and procedures for participation by engineering colleges in the Avishkar.

Eligibility:

Participation in the Avishkar is open to engineering colleges that are recognized by the All India Council for Technical Education (AICTE) or an equivalent accrediting body.

Registration:

Students can not directly register themselves. Student can be registered by your college SPOC. Only those students are allowed to be registered who are selected in the Internal Hackathon. The college SPOC will be responsible to nominate the top 15 teams as per the internal hackathon results.





AMUL

FACTORY

WHAT MAKES THE COLLEGE IS FUN :-

An industrial visit provides firsthand exposure to operations, processes, and technologies in a specific industry, enhancing understanding and learning. It allows participants to observe real-world applications and best practices directly from professionals

INDUSTRIAL VISIT



Amul, short for Anand Milk Union Limited, is an Indian multinational cooperative society based in Anand, Gujarat. Established in 1946 by Tribhuvandas Kishibhai Patel, it operates under the Gujarat Cooperative Milk Marketing Federation, benefiting around 3.6 million milk producers. Verghese Kurien, who joined in 1949, played a pivotal role in its growth and marketing and later became chairman after Patel's passing in 1994.





Cultural Events

SLRTCE 2023-24



Republic Day

Shree L. R. Tiwari College of Engineering, Rahul Education celebrated the 75th Republic Day with great zeal and enthusiasm. Event began at 8:30 AM with flag hoisting in the compound of the college. The flag was hosted by Principal - Dr. Deven Shah Sir, followed by the National Anthem. After the hosting ceremony, everyone was seated in the seminar hall for further activities. The event initially started with a speech by Dr Deven Shah (Principal) Sir, Dr. Umesh Bhadade (Vice-Principal) Sir and Dr. Mayur Dubey (Director) Sir. Later on Felicitation of student & staff for their achievement was conducted.



SHIVAJI JAYANTI

On the occasion of Shivaji Jayanti, various activities were conducted at SLRCE in order to create awareness in the young minds regarding the valiant Maratha warrior, Shivaji Maharaj. The students of SLRCE came together to celebrate the auspicious occasion of Chhatrapati Shivaji Maharaj Jayanti on 16th February 2024. The celebration began with the lighting of a traditional lamp, followed by the dancing with lezim in praise of the great warrior king.



The highlight of the celebration was a speech delivered by many faculties & students, who enlightened the students about the life and achievements of Chhatrapati Shivaji Maharaj. They spoke about the Maratha Empire's contribution to India's rich cultural and historical heritage and emphasized the importance of preserving and promoting our country's legacy. It is followed by singing, dancing, poster making competition & IOT based project which display Shivaji Maharaj image. Overall, the celebration of Chhatrapati Shivaji Maharaj Jayanti at SLRCE was a great success.





Social Activity

SLRTCE 2023-24

DLLE Streetplay

To create awareness about "Save Earth" team DLLE organized a Street Play on 15th March 2024. A street play was performed on the theme of saving the Earth as it can be a powerful medium to raise awareness and inspire action towards environmental conservation. Under the open sky, a group of passionate individuals gathers to enact a street play with a vital message: The urgent need to save our planet Earth.

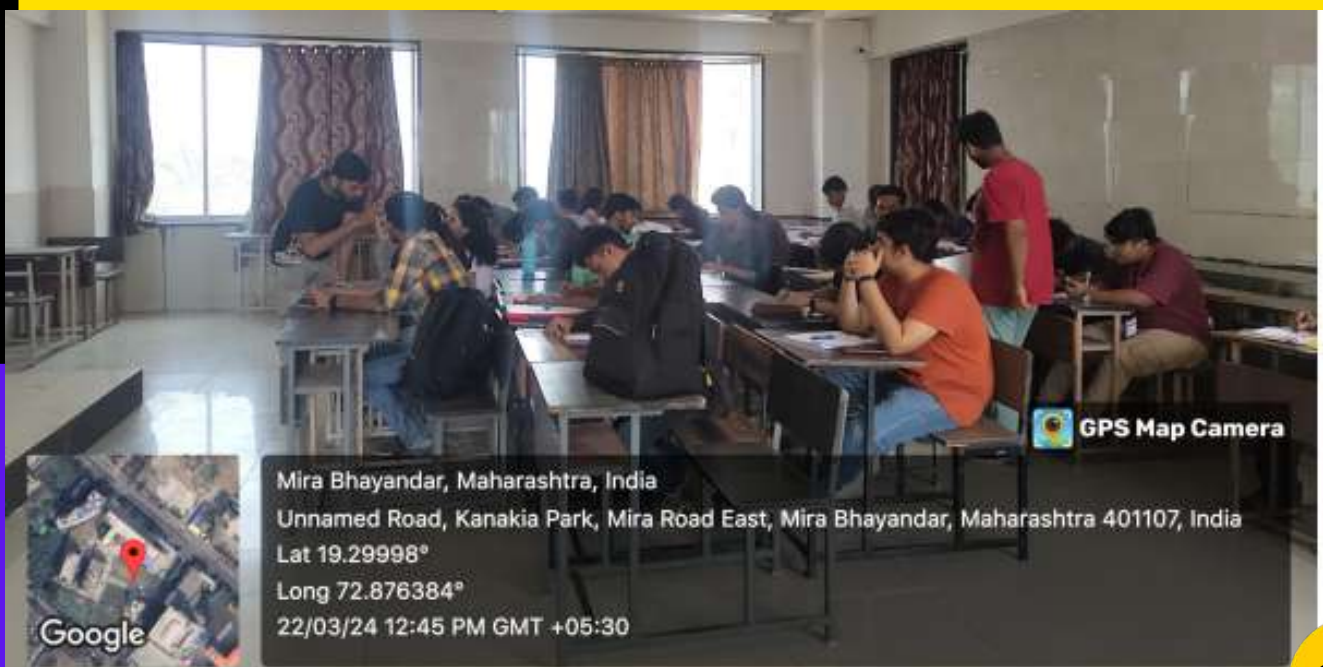
The Activity was conducted by the members of DLLE in the Open Space near the streets. Firstly, Student Manager took the permission from our Principal Sir and Dean. Hence we came up with an idea of doing Street Play about Save Earth. All the enthusiastic members of DLLE took a brief about the activity. After certain hours of Practice for Street Play students performed the Act near the Streets successfully under the guidance of Student Managers and Faculty Coordinator. The vivid scenes and compelling dialogue, in the act depict the devastating effects of human activities like deforestation, pollution, and over-consumption on our precious ecosystems. By this event the members of DLLE learnt the importance of Save Earth.



DLLE CAREER GUIDANCE

Team DLLE organized the Career Guidance activity to guide students about further career fields which they can pursue as their career. The activity was conducted on 22th March 2024 for the students who were not aware about different career fields like how to pursue, which exams should be given, salary,scope etc.

The Activity was conducted by the members of DLLE in the classes of Mira road. Firstly, Student Managers Nishant tiwari & Harsh Singh took the permission from our Two DLLE Extension Sir. Then, all the enthusiastic members of DLLE had a talk with themselves about the difficulties and problems related to their academics and career and guided them. By this event the members learnt team work and enhanced their communication skills. Also, they did research on government schemes and different career opportunities which was beneficial to them too.



DLLE TREE PLANTATION

To create awareness about “Importance of trees in the ecosystem” team DLLE organized a Tree Plantation activity on 13th March 2024. Successful tree plantation events can inspire students to undertake more environmental initiatives both within the college and in their communities. Tree plantation activities provide students with hands-on learning experiences. Students, faculty members, and all the DLLE members are invited to participate. The active involvement of students in the planting process fosters a sense of responsibility towards the environment.

The Activity was conducted by the members of DLLE in the College. Firstly, Student Manager took the permission from our Principal Sir and Dean. Hence we came up with an idea of doing Tree Plantation. Then, all the enthusiastic members of DLLE took a brief about the activity. Students selected a suitable location within the college premise and performed tree plantation activity under the guidance of Student Managers and Faculty Co-ordinator Mr. Dhiraj Singh. By this event the members of DLLE learnt the importance of Tree plantation.



DLLE ELECTION PROCESS

Team DLLE organized the Election process and Election literacy activity to enhance the election literacy by providing a succinct overview of the election process. The election process encompasses various stages, starting with voter registration, followed by candidate nomination, campaigning, voting, and result declaration. Voter registration is a foundational step, and understanding its importance ensures eligible individual to be part of democratic process. The candidate nomination process and the significance of diverse representation are key aspects to explore. The voting process, conducted at polling stations, emphasizes the confidentiality of the voter's choice. Result declaration involves a meticulous counting process and transparency measures to ensure a fair outcome. This activity was conducted to encourage the educated citizens about election process and Election literacy

The Activity was conducted by the members of DLLE in Mira road on 29th November-2023. Firstly, Student Managers took the permission from our Dean. Hence, we came with an idea of conducting a Election process and Election literacy activity. Then, all the enthusiastic members of DLLE took a brief on materials needed to conduct this activity like, posters displaying the importance of Election process and Election literacy, To prepare a slogan to encourage and educate people regarding the importance of not just voting but voting the correct candidate. From this activity students gained a lot of knowledge about Election process and Election literacy themselves and understood the importance it carries.



DLLE CAREER PROGRAM

Team DLLE organized the Career program project presentation activity to guide students about further career fields which they can pursue as their career. The activity was conducted on 27th March 2023 for the students who were not aware about different career fields

The Activity was conducted by the members of DLLE in the classes of Mira road. Firstly, Student Managers Nishant tiwari & Harsh Singh took the permission from our Principal Sir and Dean. Then, all the enthusiastic members of DLLE had a talk with themselves about the difficulties and problems related to their academics and career and guided them. TEAM DLLE made individual presentations, leaflet, and Posters for the students of classes and societies about different careers opportunities. By this event the members learnt team work and enhanced their communication skills. Also, they did research on government schemes and different career opportunities which was beneficial to them too.



DLLE MOCK INTERVIEW

Team DLLE organized Mock interview activity

To make students ready for an actual job interview

To make students confident and to improve their communication skills

To teach them important key points during an interview

Mock Interview activity was arranged by the students of DLLE for the students of Shree LR TIWARI college Of Engineering .As permission for the event was taken by Student Managers: Nishant tiwari and Harsh Singh, from the Dean. The event took place on the 26th of March 2024 in a classroom, to provide an extensive simulation of an actual job interview. It provided an opportunity to job seekers a practice for an interview within-depth feedback on their interviewing skills. By this event the members learnt team work and enhanced their communication skills



Mira Bhayandar, Maharashtra, India
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Mira Bhayandar, Maharashtra, India
Unnamed Road, Kanakia Park, Mira Road East, Mira Bhayandar, Maharashtra 401105, India
Lat 19.300003°
Long 72.876398°
26/03/24 01:14 PM GMT +05:30

Google

GPS Map Camera

Mahim Beach Cleanup.

Date: 22nd September 2022



Our NSS unit had organized a Beach cleaning drive under Swatch and Surakshit Sagar (Coastal Cleanup). NSS volunteers gathered at Mahim beach by 2.45 pm. Firstly, The Volunteers were divided into four groups, so that they could split and clean the particular area. A garbage bag and a pair of surgical gloves and face mask were given to the volunteers. Large number of plastic covers and wastage were collected. 68 NSS volunteers participated in the Beach Cleaning Drive on Thursday. The event was supervised by NSS PO Mrs. Menka Singh.

We believe **"LEAVE NOTHING ON THE BEACH BUT FOOTPRINTS"**.



UBA CELL, SWDC

Pradhan Mantri Yojna and Ayushman Card Awareness Program



About the Activity: The students from the UBA (Unnat Bharat Abhiyan) cell of Shree LR Tiwari College of Engineering conducted a Government Scheme and Ayushman Card awareness activity in Depivali village. The goal of the activity was to educate villagers about government schemes aimed at their welfare and financial security. The students visited individual houses to explain the benefits of each scheme. The activity covered several prominent government schemes mentioned above. During the activity, the students interacted with the villagers, addressing their queries regarding these schemes. They explained the eligibility criteria, and application procedures in a simplified manner to ensure better understanding. Additionally, they highlighted the importance of financial planning and security, for those belonging to the unorganized sector and rural areas. The initiative was well-received by the villagers, who appreciated the efforts taken by the students to enlighten them about these government schemes. The villagers were interested in availing the benefits of the schemes and expressed gratitude to the students for the informative session. Overall, The Government Scheme and Ayushman Card awareness activity conducted by the UBA cell proved to be successful in empowering the villagers with knowledge about financial inclusion and social security measures provided by the government.



Say No To Plastic Awareness Program.

About the Activity:

The students from the UBA (Unnat Bharat Abhiyan) cell of Shree LR Tiwari College of Engineering took the initiative to organize a compelling "Say No to Plastic" awareness program in Depivali Village. Driven by their dedication to environmental conservation, the event aimed to educate villagers about the harmful effects of plastic pollution and promote the adoption of sustainable alternatives. The program kicked off with informative presentations, shedding light on the grave consequences of plastic usage on our ecosystems. Through interactive sessions, villagers actively engaged in discussions, sharing their insights and concerns. As a practical solution, the students distributed free cloth bags, emphasizing their role in reducing plastic waste. The event received an enthusiastic response from the community, indicating a growing awareness and willingness to embrace eco-friendly practices. By spearheading the initiative independently, the students demonstrated commendable leadership and commitment to making a positive impact on their surroundings. Moving forward, they remain dedicated to organizing similar grassroots efforts, driving change at the local level and inspiring others to join the movement towards a greener, more sustainable future.





Palghar, MH, India
Vasai, Palghar, 401303, MH, India



Palghar, MH, India
Vasai, Palghar, 401303, MH, India



Palghar, MH, India
Vasai, Palghar, 401303, MH, India
Lat 19.444565, Long 72.958141
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Note: Captured by GPS Map Camera



Palghar, MH, India
Vasai, Palghar, 401303, MH, India



Depiwali, Maharashtra, India
Unnamed Road, Majivali, Depiwali, Maharashtra 401303, India



Depiwali, Maharashtra, India
Unnamed Road, Majivali, Depiwali, Maharashtra 401303, India



Majivali, Maharashtra, India
Post paroi Depavli, CXR4+3CM, Majivali, Depiwali, Maharashtra 401303, India
Lat 19.440966°



*Student's
Artwork*

#BusinessAviation



Klein Vision Flying Car



The prototype AirCar is of comparable length to a Mercedes S-Class saloon, at 5.2 metres (17 ft 1 in), and around 2 cm (1 in) narrower. Overall weight is 1,100 kilograms (2,400 lb). A second, pre-production prototype is expected to have a monocoque fuselage with a more powerful 220 kilowatts (300 hp) engine. The design was type certified as an aircraft in January 2022 in Slovakia. It also needs approval as a road vehicle before it can be used as such.

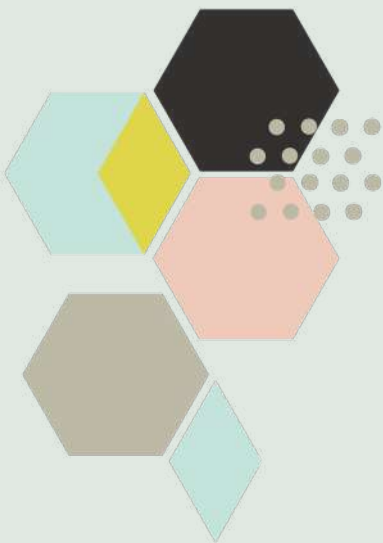
Slovak designer Professor Štefan Klein began working on flying cars in the late 1980s. Having developed the AeroMobil, he left the company to develop a new idea as the AirCar, and set up Klein Vision with colleague Anton Zajac. The main fuselage of the AirCar doubles as a two-seat road car with four large road wheels. Styled like a sports coupe, it contributes 30-40 per cent of the total lift when in the air. For flight it is fitted with foldout wings and extending tailbooms carrying a high tail. A pusher propeller is permanently installed between the fuselage and tail, and a safety

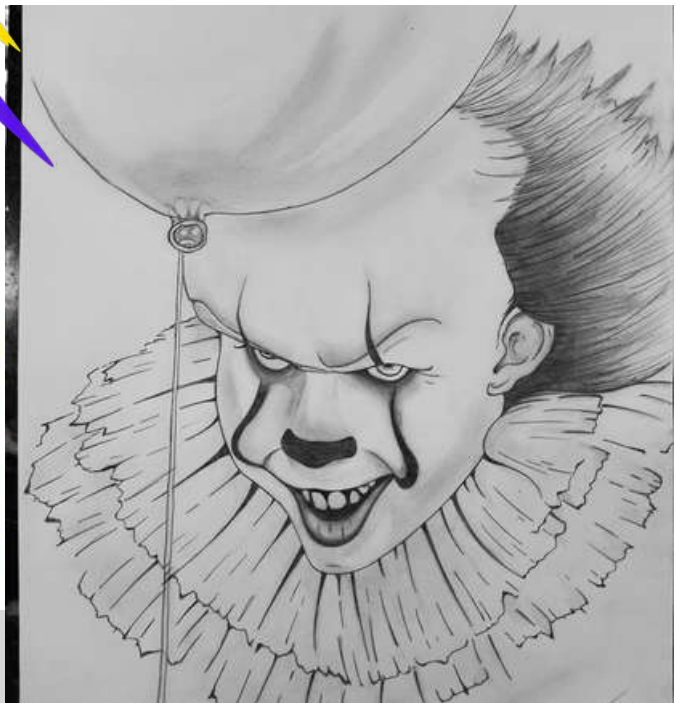
A prototype flying coupe, known as the Klein Vision AirCar, successfully completed a 35-minute test flight this week in its home country of Slovakia. The aeronautical two-seater was flown and then driven by company founder Professor Stefan Klein. It managed two take-offs and landings without incident on the journey between international airports in Nitra and Bratislava (which, according to Google Maps, are 72km apart). Underpinned by a steel subframe and largely built from composite plastics, the AirCar can transition from a relatively-compact road-going vehicle to a fully-functional aeroplane in just two minutes and 15 seconds at the press of a button.

is primarily a semi-monocoque of carbon fibre composite over a steel subframe. Over 20 programmable servo motors are used to perform the transition between road and air configurations. When on the road, the retracted tail surface creates a downforce similar to conventional rear aerofoils. Power is provided by a 1.6 litre BMW road car engine, running on automotive petrol or gasoline and delivering 104 kilowatts (139 hp).

Unlike the recent crop of drone-like electric "flying cars" shown-off by Uber and SkyDrive, the AirCar is more faithful to the traditional concept of an aviating automobile – its stow-away wings fold away to the side, and an elongated tail retracts into the sports car body. A BMW-sourced 104kW 1.6-litre petrol engine powers the 1100kg vehicle on the ground and in the sky (an updated powertrain putting out 223kW is reportedly in development, but not yet airworthy). On the road, drive is sent to the wheels via an automatic transmission, while in the air it is diverted to a fixed rear-mounted propellor.

-Arshia Shaikh (SE)





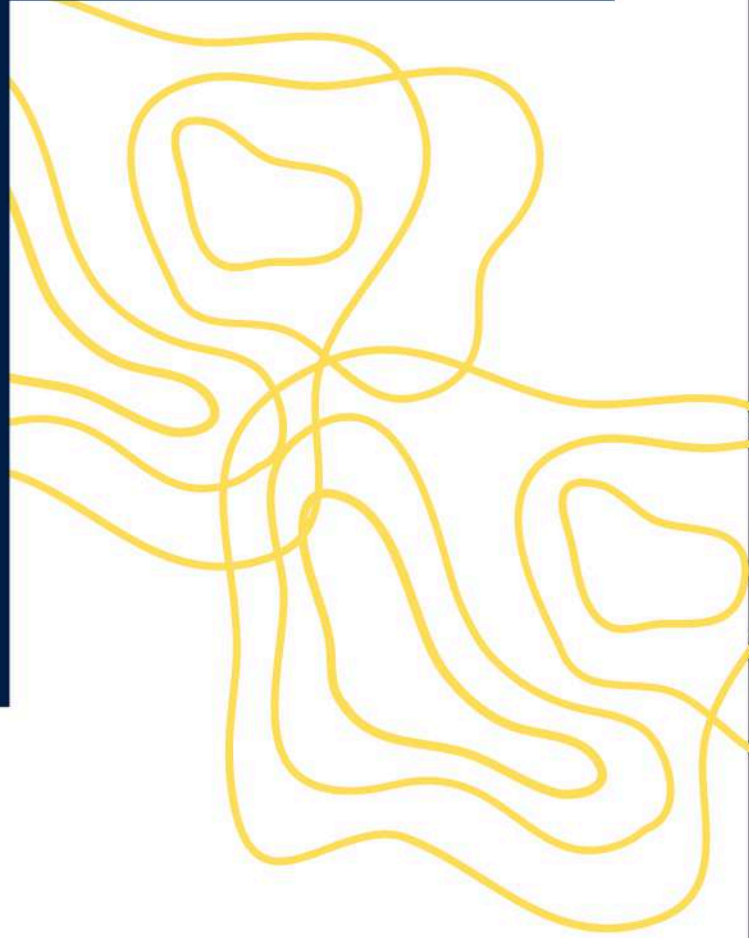
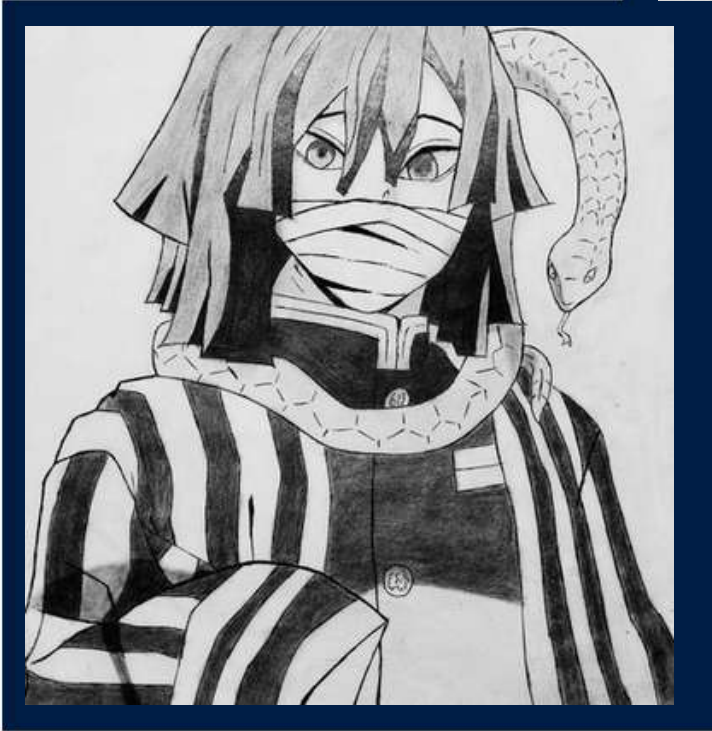
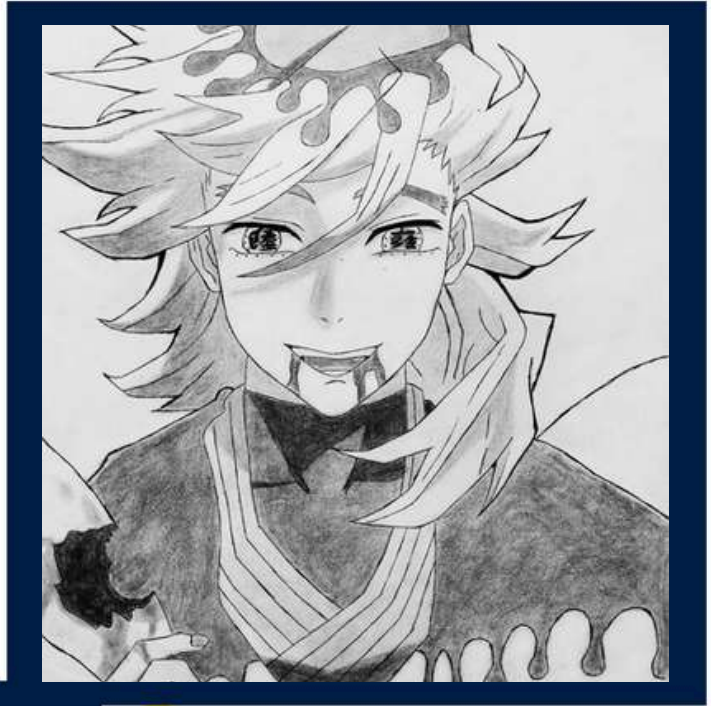
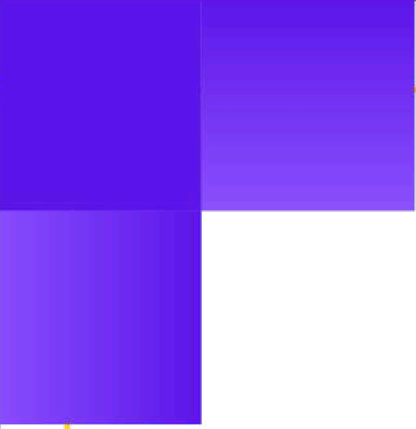
PRIYAN VISHWAKARMA

SE CS



SATYAPRAKASH BIND

SE ECS



DILIP PARMAR

SE CS



SIDDHI RATHOD
SE IT

BICHDE DOST

Jab wakt ka kharab mausam satayega...
Toh khwab me yeh shaks nazar aiyega tumhe...
Badi asani se tum mujhe chod gaye...
Meri keemat Yeh wakt batayega tumhe...
Bezuba pattar Aur dil me fark hai...
Dhiyan se dekhoge toh nazar aiyega tumhe...
Tum dhundte firoge parchai tak hamari...
Jab koi hamari tarah na chahega tumhe...
Bichadkar bhi bichde nahi hai hum dost...
Dekhna ek roz Yeh bhi samajh aiyega tumhe...!!!



NAVED HAFIZ JAMADAR

TE MECH

Jab pehene wo kapde apne mann se
Kaali nazre chalti hai saath saath
Kya isi tarah hoga betiyo ka samman?
Kabhi maa, kabhi behen, kabhi biwi banke Rakhti hai sabka
dhyaan
Mera yahi sawal hai Ki fir bhi unko kyu nhi milta pura
samman?

Farak hame mitana hai
Apni ye soch badal kar
Aage betiyo ko bhi badhana hai
Tab hum keh sakenge ki
Ye hai betiyo ka samman!!!
Ye hai betiyo ka samman!!!



PRASHANT PAWAR

TE MECH

Revolutionizing Electric Vehicles: The Solar-Hydrogen Hybrid Solution

The transition to electric vehicles (EVs) is often hindered by the lack of charging infrastructure, especially for long-distance travel. While hydrogen vehicles offer a promising alternative, their adoption is still in its infancy. To bridge this gap, I propose a unique vehicle concept that combines solar panels for runtime charging with a hydrogen power source as an additional or optional fuel source. This dual-power system ensures that the vehicle can continue to operate even when battery levels are low, providing a reliable means to reach the nearest charging station.

Design Overview The Solar-Hydrogen Electric Vehicle (SHEV) integrates cutting-edge technologies to enhance both performance and sustainability. Key features include:

- **Solar Panels:** Strategically placed on the vehicle's roof and body, these panels harness solar energy to charge the battery during runtime, extending the vehicle's range.
- **Hydrogen Power Source:** Equipped with slim hydrogen cylinders (H.C.) and a hydrogen filling point, the vehicle can switch to hydrogen power when the battery is low, ensuring uninterrupted travel.

KRISHNA NIRAJ THAKUR 2 • EV Charging Point: Standard EV charging capabilities are included for conventional charging needs. Simple Design of vehicle showcasing solar cells on roof and hydrogen cylinders will be installed inside seats (for space management



**KRISHNA
THAKUR**

FE-IT



Technical Specifications

- **Solar Cell Efficiency:** High-efficiency solar cells convert sunlight into electrical energy, optimizing the vehicle's range.
- **Hydrogen Fuel Cell:** The hydrogen fuel cell provides a clean and efficient power source, reducing reliance on traditional charging infrastructure.

KRISHNA NIRAJ THAKUR 3 • **Energy Management System:** An intelligent system manages the transition between solar, hydrogen, and battery power, ensuring optimal performance and energy utilization.

THE INFLUENCE OF BIRTH TIME ON OPTIMAL BODY PERFORMANCE



**KRISHNA
THAKUR**

FE-IT

Biological rhythms like the circadian cycle have been extensively studied, revealing the intricate relationship between physiological processes and time of day. These rhythms are essential for functions such as sleep regulation, hormone secretion, and cognitive performance. Traditional research emphasizes generalized peak performance times based on environmental cues like light exposure. However, this study proposes a new dimension: the hypothesis that an individual's birth time may serve as a personalized marker for their optimal performance window. This paper investigates whether the body delivers its best performance between three hours before and after an individual's birth time and explores the potential applications of this finding across various fields, including productivity, health, and cognitive science.

1 Hypothesis This research hypothesizes that an individual's body achieves optimal performance in a six-hour window: three hours before and three hours after their birth time.

2 Participants The study involved some participants across various chronotypes (morning, intermediate, and evening). Each participant recorded their birth time and engaged in a series of mental, physical, and emotional performance tests throughout the day to determine peak performance periods.

3 Data Collection Performance was measured using standardized cognitive tests, reaction time assessments, and physical endurance exercises, along with self-reported productivity levels. Participants were asked to fill their time of birth and some more details like when they feel more productive and the data was collected through google form voluntarily from some participants, with a focus on the six-hour window surrounding their birth time. 3.4 Analysis The results were analyzed using statistical models to compare performance levels within the six-hour window around birth time versus other periods of the day. Factors such as sleep quality, food intake, and light exposure were controlled to ensure consistency.

The results overwhelmingly supported the hypothesis. On average, participants demonstrated a 10- 15% improvement in cognitive tasks and a 12-18% increase in physical performance during the three hours before and after their birth time, compared to other times of day.

- Cognitive performance: Mental clarity, memory recall, and problem-solving abilities were at their highest during the birth-time window.
- Physical performance: Participants recorded faster reaction times and higher endurance levels in physical tasks during this period.
- Subjective reports: Participants also reported feeling more energetic, focused, and productive during their birth-time window.

This study introduces a novel framework for understanding peak performance: the birth-time window, which posits that individuals are most likely to deliver their best performance in the three hours before and after their birth time. While further research is needed to explore the mechanisms behind this phenomenon, the findings have significant potential for personalizing productivity strategies, optimizing performance, and enhancing overall well-being.

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