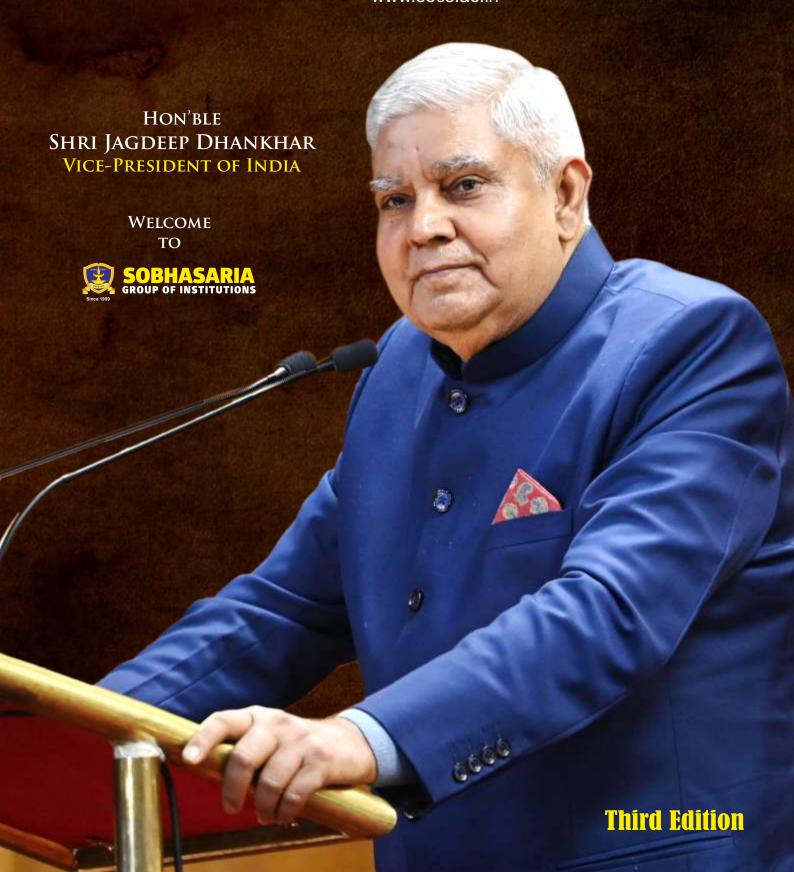
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SOBHASARIA TIMES

SILVER JUBILEE EDITION
July-September 2024

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Dear Readers,

to you the third quarter newsletter of the Silver Jubilee Edition of Sobhasaria TIMES. This marks another milestone in our journey, as we continue to celebrate 25 glorious years of Sobhasaria Group of Institutions. Our previous two editions were met with widespread appreciation, showcasing the transformation of our humble college into a premier group of institutions known for quality education and holistic development. Guided by the visionary leadership of our esteemed Chairman, Shri P.R. Agarwala, and steadfastly supported by our Vice Chairmen, Mr. G.P. Agarwala and Mr. K.B. Agarwala, Sobhasaria Institutions have grown into a beacon of educational excellence. Their unwavering commitment to innovation, infrastructure development, and academic excellence has enabled the institution to expand its horizons, benefiting not only students in Sikar but also those from surrounding regions and beyond. Through their strategic foresight and dedication to holistic development, Sobhasaria has nurtured an environment where students are empowered to excel. As a result, our alumni have gone on to achieve extraordinary success, serving as Senior Government officers of higher rank, Scientists, CEOs, entrepreneurs, and leaders in diverse fields. Their achievements are a testament to the robust foundation laid by the institution's leadership and its continued emphasis on quality education. Today, under the

It is with immense pride and pleasure that we present

We would like to extend our heartfelt gratitude to Mr. Manoj Joshi and CA Mr. Sunil Mor for their invaluable guidance and suggestions, helping us achieve our goals and keeping us on the path of continuous progress.

leadership of our Member Secretary, Mr. Ravi Agarwala,

we are looking ahead-ready to embrace the latest

trends and mindsets in the educational landscape,

setting new benchmarks for excellence.

In this edition, we have turned our focus to the remarkable projects and research initiatives led by both students and faculty members. At Sobhasaria, we believe that the true progress of any educational institution lies in the strength of its R&D efforts, and we are proud to announce that our faculty members have recently published 44 papers in esteemed journals, including SCI, Scopus, and UGC Care-listed publications.



Our students have been equally engaged, contributing to innovative projects in their respective fields, several of which have been highlighted in this edition.

Sobhasaria's commitment extends beyond academics; we believe in giving back to society. This quarter, in collaboration with the Rotary Club of Sikar, we successfully organized a Blood Donation Camp, where 119 units of blood were collected. We are also contributing to environmental conservation through the "Ek Ped Maa Ke Naam" tree plantation initiative.

As we celebrate 25 years of educational excellence, we are honored to welcome the Honorable Vice President of India, Shri Jagdeep Dhankhar, as the Chief Guest on our 25th Foundation Day. His presence will add to the grandeur of the event as we unveil this very edition of Sobhasaria TIMES.

A special thanks goes out to the Vice Chancellors and officials of our affiliated universities, the many distinguished personalities who have contributed to the growth of this institution, our past Principals, and all faculty members and staff whose relentless efforts have elevated Sobhasaria Group of Institutions to new heights.

As the saying goes, "Sky is the limit" and for us, the sky holds no bounds. We will continue our relentless pursuit of excellence, ensuring that Sobhasaria stands apart in the competitive world of education.

Wishing you an enriching read,

Chief Editor

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Online Newsletter (in multiple languages)



It gives me immense pleasure to be a part of this vibrant Institution, which by its own right and practice has created benchmarks in the education sector. It is not only the rise which matters but the consistency shown in imparting education which our institution has exhibited in taking it to newer heights is what is really commendable.

The essential component of quality education is mastery over a subject. A student must understand the basics of the subject and then should ensure its applicability in practical situation. Education is all about concept and its attributes in everyday life.

All fields of education are interlinked and has a cognizance. There is a concept, there is a method, there is a machine and there is a person. A perfect integration of the cognitive principle/s gives the best results. Future of education will be an edification of such integrations, which will ensure progress on a holistic level. Research and development is the call of the day.

Our Institution is the only Institution in the region to receive the prestigious ASIA EDUCATION AWARD in the year 2017 & UNESCO Chetna award for their charitable mindset and their dedication towards the society.

With a strength of 1800 young and enterprising minds, we all have tremendous resource to set benchmark in quality education in the region and escalate our Institution to the next level. Infact, it is very endearing to learn that our student held a part of the Chandrayan Project. This has been a great achievement. This shows that their education has been well-rounded.

Considering all these, we feel we have done well. Education evolves and engages and we all have to move forward with these changes in teaching and research. Hard work, innovation and perseverance will give us more success, and I am confident about it.

Let us all live every moment of the grit and glory of this great institution – Sobhasaria Group of Institutions.

I convey my gratitude to one and all, from the mentors to the students - who have contributed in making things happen and keeping the flag of SGI flying high...

Best wishes,

Padma Shri P. R. Agarwala

Chairman



Dear Members of the Sobhasaria Family,

As we mark 25 years of excellence in education at Sobhasaria Group of Institutions, I extend my heartfelt congratulations to each one of you. This milestone is a reflection of the hard work, dedication, and vision of our faculty, staff, students, and all stakeholders who have contributed to our journey of imparting quality education in this region.

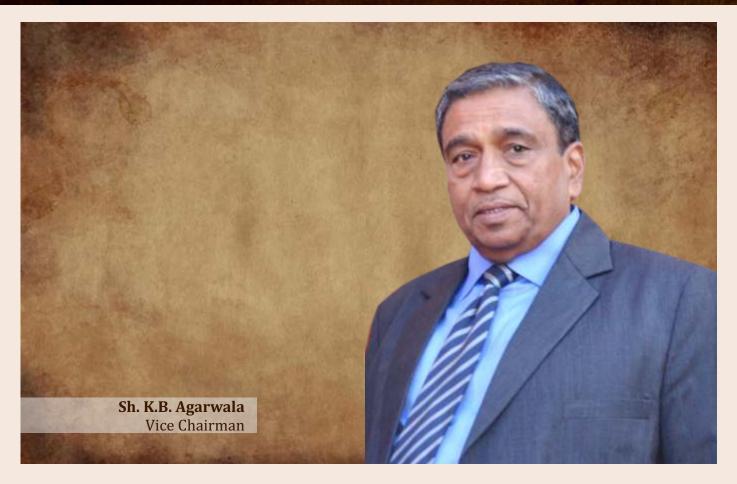
While our institution has been successful in educating students according to the curriculum of various universities, it is crucial to remember that our responsibility extends beyond academics. As we move forward, I urge all of us to focus on nurturing our students into responsible citizens of India. It is important that they not only excel in their respective fields but also embody the values of humility, respect for our rich Indian culture, and a deep understanding of their social responsibilities.

Let us continue to work together to ensure that our students grow into well-rounded individuals, equipped with the knowledge, values, and ethics that will enable them to contribute positively to society and our nation.

Warm wishes,

Sh. G.P. Agarwala

Vice Chairman



It is said that to walk a thousand miles you have to take the first step!

At Sobhasaria Group of Institutions, we took that bold step 25 years ago and have come a long way since then. But we cannot stop here and start commending our laurels – as a lot more needs to be done to exemplify our vision of providing education *par excellence* to the students who come from all over the country to study at Sobhasaria.

Education is the essence of our lives and today's educated youth are the future of our nation helping it to grow and evolve in all its completeness. There are multiple fields of studies and newer opportunities are emerging continuously. Yet, it is absolutely necessary to instil the basic foundations of "quality & determination" in students from the very beginning – so that they are able to evolve as worthy individuals as they move forward.

The journey of our Sobhasaria Group of Institutions has been truly exceptional over the past 25 years. However, as we journey along, we need to provide that "added impetus" to our efforts in outperforming ourselves and achieving new milestones in the field of education. We should not just be another college doling out degrees to passing students - but be about providing "education" that would be the foundation for shaping future leaders of our nation.

I would like take this opportunity of commending the hard work put in by everybody to make our Institution's dream true. Let us resolve to make BIG things happen - as we continue to pursue the path of education for evolving bright minds!

Sh. K. B. Agarwala

Vice Chairman



Dear Members of the Sobhasaria Family,

As we celebrate 25 years of success and progress, I am deeply honored to be a part of this distinguished institution. Over the years, Sobhasaria Group of Institutions has earned its place in the academic world, not by simply following the path but by leading the way in quality education. Our institution has been a hub for learning, where students grow not only academically but holistically, preparing them for the ever-changing dynamics of the world.

The true power of education lies in its ability to create change - not just in individuals, but in society as a whole. This change stems from fostering curiosity, encouraging critical thinking, and applying knowledge in meaningful ways. At Sobhasaria, we strive to build these pillars by ensuring that our students understand the foundation of their subjects while also being equipped to apply them practically in their careers and lives.

What sets us apart is our focus on nurturing a spirit of inquiry and innovation. As we look ahead, it is clear that education must evolve continuously, integrating new technologies, disciplines, and approaches to keep pace with global developments. Research and innovation will play pivotal roles in ensuring that we not only remain relevant but also lead in producing forwardthinking graduates capable of addressing future Member Secretary challenges.

Our institution's success is not only defined by awards and accolades, but by the success stories of our students, faculty, and alumni. Whether it's the ASIA Education Award, UNESCO Chetna Award, or our students contributing to national missions like Chandrayaan, these achievements are a reflection of the quality and vision that guide our institution. Each of these milestones reflects the hard work and dedication of everyone involved.

Looking to the future, I believe the strength of our institution lies in its people – our faculty, staff, students, and alumni - and their commitment to excellence. With nearly 2000 plus dynamic minds under our care, we have the responsibility and the resources to drive educational standards higher and set new benchmarks in the region.

Together, let us embrace the future with optimism and determination. As we step into the next chapter of Sobhasaria's journey, I am confident that through collaboration, innovation, and perseverance, we will continue to achieve great things.

Thank you to everyone who has been a part of this incredible journey, and let us look forward to many more years of success, growth, and impact.

Warm regards,

Mr. Ravi Agarwala

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Interactive Session with Chairman Sir

"Everything is within you, you can do anything. You can do everything" A up close and personal interaction with the Chairman of Rupa Group of Industries, Mr. P. R. Agarwala along with the students of Sobhasaria Group of Institutions, Sikar

In a thought-provoking session held recently at Sobhasaria College, Mr. Prahlad Rai Agarwala, Chairman of Rupa Group of Industries, engaged in an insightful interview with a group of students from the college's Law,



Management, Engineering, and Degree programs. The event, which took place in the college's boardroom, was part of an initiative to build a strong bridge between academic learning and industry experience. The interview was conducted following the recent publication of the book "Silver Threads," which is based on the life of Mr. P. R. Agarwala. The interaction, moderated by Professor Dr. Rajesh Kumar Gaur, saw a lively exchange of ideas and perspectives as the students posed a range of questions to Mr. Agarwala. The topics covered included business ethics, innovation, the role of education in shaping future leaders, his

personal experiences, and the struggles of building the vast empire of "Rupa" as we know it today.

Question (Vijay Singh Shekhawat, Department of Law): William Shakespeare famously said, 'what's in a name' but he himself wrote his name under the very quote. So as you are named Prahlad who according to Hindu mythology was a devotee of Lord Vishnu, what is your version of this story?

Answer (Mr. P R Agarwala): Mentioned with a smile that the name is indeed not that big until you make it important and recognizable in the society by everyone, hence lightly mentioning that " Lama devotee of Lord Hanuman".

Question (Devansh Lohani, Department of Law): How did you feel your childhood learning process and how that differs from the modern style of learning?

Answer (Mr. P R Agarwala): He took everyone down the memory lane of his childhood, "Jaithmal ji naam tha Guruji ka", His former teacher's name was Jaithmal who used to live near Ghanta Ghar (Bell Tower) in Sikar. He explains that back in his childhood days, no one used to have a pen or paper for solving Mathematics problems. They were done orally and if you don't give correct answers in class you were made to sit separately from those who answered correctly. And the one who made a mistake

"Everything is within you, you can do anything. You can do everything"

was canned by the teacher. Which was a very harsh method of teaching as well as learning. Which he could not bear for a long period of time. Until his father understood his condition and took him out of that class and sent him to another one. Even though the punishment system was harsh, what was taught was solid and actual raw learning. The same is not how children learn in schools nowadays. Nowadays it's a very calm, soft environment which ensures children do not get scared of learning and rather enjoy it. This gave students a fair insight as to how the education system has changed over the years.

Question (Ashok Singh Shekhawat, Department of Law): As we all know mother is the most beautiful and most loving gift from God and you have mentioned a lot about your mother in the book "Silver Threads", How her influence has supported your personal values and professional achievements?

Answer (Mr. P R Agarwala): Emotionally mentioned "Mother's Love is something else, success is something else. My mother was illiterate yet she remembered everything. The families back then use to be big and everyone lived together as a joint family. We were three sons and four daughters but she remembered everyone's birthdays each and every one. She even remembered the exact time of their birth. Even though she was not educated, she handled the family and took care of each and every thing very efficiently. Some thing which I feel every one must learn, her level of dedication and management skills.

Question (Jeena Sharma, Department of Law): As we know that your mother is very kind and generous, what qualities of your father influence your upbringing and your personality?

Answer (Mr. P R Agarwala): Replied quietly with a subtle hint of smile "My father was a very strict as well as very punctual person. He always emphasized on maintenance of time. I used to be very scared of him. When we used to



see him returning home in the evening and saw him at the corner of the street, we used to run away. He was so punctual that the shop we had in Mahatma Gandhi Road in Kolkata and usually we had a norm of closing the shop at 2:30pm in the afternoon. People there never checked their watches. It was believed that when "Prahlad & Ramavtar" was closed it meant that time was 2:30pm. Which is good, I believe that one must be punctual in life. "Wherever we go we should always maintain time". This reminds me of one time during my B.Com graduation days I went to him to ask for

tuition fees of 75 rupees a month as I needed tuition in English and Mathematics, I was fairly good in studies. But my father told me to leave studies altogether. Laughing, Mr. Agarwala mentions that those were the days, well he got himself a guide book and studied from it.

Question (Palak Khandal of Department of Law): "Sir, I am very close to my grandparents, I am very glad you have mentioned about your Dadaji in the book and along with the quote 'when I will be gone you will achieve everything in life' I want to know more about the quote."

Answer (Mr. P R Agarwala): quoted "That has come true" speaking about his grandfather he mentioned him being a devotee of God with his praying beads from morning till evening. His grandfather wanted him to be a good man. A man of conscience and morale, who did good in life. And this remained same throughout his grandfather's life. "Mala in hand and after sunset he never ate".

Question (Tushar Dadhich, Department of Civil Engineering): Sir, What are your hobbies that gives you maximum pleasure in life

Answer (Mr. P R Agarwala): He simply mention that he likes to play badminton and generally likes to indulge in sports activities. He thinks that one must indulge in physical pursuits in life to remain healthy.

Question (Vijay Singh Shekhawat, Department of Law): "From Having only one pair of uniform to being the chairman of an educational venture from working at weighing clothes to being the chairman of the prestigious Rupa Group, from being a young entrepreneur to receiving Padam Shri in March 2022, sir what is your biggest achievement according to you?

Answer (Mr. P R Agarwala): "According to me, I think I achieved nothing but there are things that I still want to achieve. There are still miles to go for me."

Question (Devansh Lohani, Department of Law): You had completed education at a very young age, what were the hardships faced by you during that period of time?

Answer (Mr. P R Agarwala): At the age of eleven years old when I went from Sobhasar, Sikar to Kolkata. Before that I did my 4th and 5th standard combined and then once in Kolkata I got admission in 9th and 10th together. So at age 12 the school in Kolkata was not permitting me to appear for the exam as I was underage, hence laughingly, he mentions that he had to extend his age by 1 year in documents. It was possible in earlier times. Now not so easily possible.

Question (Jeena Sharma, Department of Law): "Everything in this universe has a name to define it". How did the thought of giving your company the name "Rupa" come up in your mind?

Answer (Mr. P R Agarwala): When we started in the hosiery market there were a couple of companies who had built their names like Dora, Sona, Gold etc. At that time Mr. Wiswas, an architect in our company, we asked him what silver is called in Bangla. He said "rupo" so we decided "Let's name the company Rupa".

Question (Bhanu Priya, Department of Management): "How did you think of selling products in many places? What difficulties did you face while traveling?"

Answer (Mr. P R Agarwala): "In initial stages we did not have anything much and other brands were running their business as well in the market. We started with Bihar market, in those days there used to be a lot of money crunch hence I have often traveled in 3 tier bogies where I have slept in the empty space near the lavatories "neechay gamcha bichake" I used to sleep and then next morning used to get down at the station and used to take bath from the station hand held pump "Chapa kol" and used to go meet the vendor in hand pulled rickshaw. Later when hungry, I used to eat the cheap poor is abji from the station food stall. And like this I keep pushing forward."

Question (Jeena Sharma, Department of Law): As Law student I am very curious to know what was the case between "Roopa" vs "Rupa" and how Mr. Somnath Chatterjee won the case?

Answer (Mr. P R Agarwala): Ours was "Rupa" and the other party's name was "Roopa". That became a learning lesson for us. "Roopa" & "Rupa" even though we won the case but trademark can't be similar names, this is the rule of trademark. We won the case in the high court and now "Rupa" ke naam se dusra kuch nahi ho sakta.

Question (Bhanu Priya, of the Management Department): "How did Rupa beat Dora in the market?"

Answer (Mr. P R Agarwala): We did not beat "Dora". Dora's decision failed the company Dora's policies of never to have retail stores and other such decisions became the downfall of the company.

Question (Krishan Kumawat, Department of Civil Engineering): "Tell something about Rupa Foundation, how do they contribute for the upliftment of the society?"

Answer (Mr. P R Agarwala): "Rupa Foundation's biggest work that we are doing in terms of CSR is we have started to install drinking water pumps in more than 550 different locations all around the old Kolkata. We have installed

one pump in Metro station, we are even supplying filtered water in every corner of Kolkata, in our reach. "Water is a necessity" we get requests from various schools to get one water pump installed and we get it done."

Question (Ashok Singh, Department of Law): "As we know that Swami Vivekananda was a great person with great knowledge and in the book there are many quotes of Swami Vivekananda, So my question is how would you feel his presence in your success". Answer (Mr. P R Agarwala): After little pondering upon the question he mentions,



"One quote I have in my chamber that is also good for everyone. "Everything is within you, you can do anything. You can do everything" Swami Vivekananda died at the age of 38 but even today everybody quotes him from our prime Minister to other leaders across the globe why? He had a vision like that. While Swami ji was visiting U.S., roaming on the street a lady came to him and said "can't you buy clothes and be a gentleman?" Swami Vivekananda smiled and said- "In your culture, a tailor makes a gentleman; but, in our culture, In your culture, a tailor makes a gentleman."

After the interview concluded, we were left wiser than we started. A man of few words but every word as valuable as the name itself, "Rupa". We got to know how a man from a simple village of Sobhasar worked his way and became the king of the hosiery market in India. His hard work and integrity shows in his character and his wisdom and positivity in his aura.

*Article compiled by Ms Nishtha Dutta, Assistant Professor - Applied Science and Humanities



Design and Development of a PLC-Based Automated Car Washing System

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Abstract: This paper presents the design and development of an automated car washing system controlled by a Programmable Logic Controller (PLC). The system automates critical car washing operations including soapy water spraying, brushing, rinsing, and drying. By using strategically placed sensors and relays, the system optimizes the process, ensuring consistent and efficient performance. The project demonstrates how automation can improve operational efficiency, reduce labor costs, and enhance the reliability of vehicle maintenance services.

Keywords: PLC, Car Washing System, Automation, Sensors, Conveyer Belt, Actuators

INTRODUCTION

The advancement of automation in vehicle maintenance has led to the development of fully automated systems that

improve both operational efficiency and reliability. This project focuses on creating an automated car washing system operated by a Programmable Logic Controller (PLC). By integrating sensors and actuators, the system automates the entire washing sequence, which includes spraying soapy water, brushing, rinsing with clean water, and drying. The PLC system aims to minimize manual labor while delivering consistent results for every car washed. This project also integrates a conveyor system that transports the car through each stage of the washing process, with sensors placed at critical points to trigger specific actions. The overall goal is to achieve a fully automated system that requires minimal human intervention, thereby improving performance, reducing operational costs, and ensuring consistent quality



Fig. 1: System Overview

The scope of this project includes automating the car entry and conveyor system, implementing sensor-based controls, and managing the washing stages for seamless operation. The conveyor belt system is designed to transport cars through the different stages of the washing process, where the PLC controls the speed and timing to ensure smooth and accurate movement. Sensors are strategically placed to detect the car's position at each stage, activating the appropriate washing functions such as the soapy water sprinkler, brushing system, clean water rinsing, and the drying unit.

SYSTEM DESIGNAND FUNCTIONALITY

The system operates with a car entry sensor that detects when a vehicle approaches the conveyor. Once detected, the sensor sends a signal to the PLC, which activates the conveyor belt to move the car through each stage of the washing process. The conveyor belt motor is controlled by the PLC, ensuring that the car moves at a precise speed, allowing each stage to be carried out without overlap or delay.

At the first stage, the soapy water sprinkler is activated as soon as the car reaches the designated position. A sensor at this

stage ensures that the car is correctly positioned before spraying begins. The timing of the soapy water application is controlled by the PLC, ensuring thorough coverage. After soapy water application, the car moves to the brushing stage, where another sensor detects the car's presence and activates the brush to clean the vehicle's surface. The PLC manages the brushing time to ensure adequate cleaning without excessive wear on the brushes or the car.

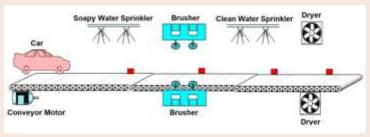


Fig. 2: Process Flow Digram

Once brushing is complete, the car advances to the clean water rinsing stage. A sensor triggers the clean water sprinkler, ensuring that all soap and debris are thoroughly removed. Finally, the car proceeds to the drying stage, where a sensor detects its position and activates the drying system. The dryer operates for a specified period, as controlled by the PLC, to ensure the car is fully dried before it exits the washing system.

PLC AND SENSOR INTEGRATION

The integration of the PLC and sensors is central to the system's success. The PLC processes the signals from various

sensors to control the actuators at each stage of the car washing process. The system is designed to handle multiple inputs, including the car entry sensor and the sensors at each washing stage. Each sensor plays a critical role in detecting the car's position and triggering the respective operation, ensuring that all washing stages are executed in the correct sequence. The PLC is programmed to manage the timing for each stage, ensuring a smooth transition from one operation to the next without any overlaps or delays.



Fig. 3: Soapy Water Washing Process

CONTROLLOGIC AND CHALLENGES

The system operates on a straightforward control logic where each sensor input corresponds to a specific washing

operation. For instance, the detection of a car at the entry point triggers the conveyor belt, while the arrival at the soapy water station activates the sprinkler. The PLC manages these processes with precise timing to ensure efficient operation. However, achieving accurate sensor detection and smooth transitions between washing stages presented several challenges. Calibration of the sensors was critical to ensure precise detection, and the PLC program required several adjustments to avoid overlaps between the stages. Extensive testing was carried out to fine-tune the timing and synchronization of the system.



Fig. 4: Cleaning Brushes

CONCLUSION

This project successfully demonstrates the design and implementation of an automated car washing system controlled by

a PLC. The integration of sensors and actuators allows for real-time control and monitoring, ensuring consistent washing quality with minimal manual intervention. The system not only improves the efficiency of the car washing process but also enhances reliability and reduces labor costs. Future enhancements to the system could include the ability to accommodate different vehicle sizes and the integration of IoT technology for remote monitoring and control.



Fig. 5: PLC and Sensor Integration

REFERENCES

[1] PLC Programming Handbook, Siemens, 2023.

[2] Car Washing Automation Techniques, Journal of Industrial Automation, Vol. 15, Issue 3, 2023.

For more information, please visit YouTube video: https://youtu.be/OFo03e-aKTI?si=602uDC0LYRa3yHfY

Smart Metro System

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ABSTRACT: This project presents the design and implementation of a Smart Metro System utilizing Programmable Logic Controller (PLC) and Supervisory Control and Data Acquisition (SCADA) systems to automate electric train operations and yard management. The system integrates a dual power supply mechanism, automatic track control, and an innovative train cleaning system. The PLC and SCADA technologies enhance real-time monitoring, safety, and operational efficiency by automating power supply management, train movement, lighting control, and auxiliary systems such as automatic cleaning. This project aims to demonstrate the significant role of automation in modernizing urban transportation infrastructures.

Keywords: Electric metro system, Programmable Logic Controller (PLC), Supervisory Control and Data Acquisition (SCADA), automated train control, dual power supply, automatic train cleaning, urban transportation.

1. INTRODUCTION

Project Overview

The rapid growth of urbanization has led to increased demand for efficient, reliable, and environmentally friendly public

transportation systems. Electric metro systems have become a preferred choice in densely populated areas due to their environmental benefits, high capacity, and operational reliability. This project explores the design and implementation of an electric metro system and yard supply, controlled using Programmable Logic Controllers (PLC) and Supervisory Control and Data Acquisition (SCADA) systems.

The primary goal is to develop an automated control system that manages the metro yard, power supply, train movement, and auxiliary systems like lighting and automatic cleaning. It integrates a dual power supply where one train draws 24V DC from a pole wire through a



Fig. 1: System Overview

pantograph, while another receives power directly from the track. Additionally, the project includes an automatic cleaning system, activated by sensors, enhancing the system's automation and efficiency.

The use of PLC and SCADA in this project aims to demonstrate how automation improves the reliability and safety of metro operations, reduces human intervention, and enables real-time monitoring of critical systems.

Scope of the Project

This project focuses on the following systems:

- 1. Metro Track and Yard Power Supply Control: Design of a dual power supply system with automated switching.
- **2. Parallel Track Control**: Automation for smooth and coordinated train movement across parallel tracks.
- **3. Automatic Train Cleaning System**: Sensor-based activation of cleaning processes.
- **4. PLC and SCADA Integration**: Managing various operations through a PLC with real-time monitoring using SCADA.
- **5. Auxiliary Systems Control**: Automation of lighting systems through the PLC, monitored via SCADA.



Fig. 2: Parallel Metro Track

2. SYSTEM DESIGN

Electric Metro System Design

The system controls two tracks, each with a different power supply method:

- 1. Track A (Pantograph-Based Power Supply): Power is supplied via a pantograph connected to a 24V DC pole wire.
- 2. Track B (Track-Based Power Supply): Power is delivered directly from the track, eliminating the need for overhead wires.

Both tracks ensure efficient train operation depending on route and infrastructure needs.

Fig. 3: Pantograph-Based Power Supply

Parallel Track System

The parallel track system enables the smooth passing of trains, preventing congestion and increasing operational efficiency. PLC-controlled track switching allows trains to move seamlessly, ensuring continuous service even during maintenance.

Automatic Train Cleaning System

A sensor-activated cleaning system maintains train cleanliness without manual intervention. Sensors detect the presence of trains, triggering a cleaning process managed by the PLC.

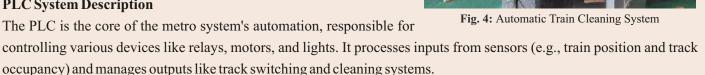
Lighting System

The project controls track, street, and city lighting through the PLC. The SCADA system monitors and adjusts lighting in real-time to ensure energy efficiency and safety.



PLC System Description

controlling various devices like relays, motors, and lights. It processes inputs from sensors (e.g., train position and track



SCADA System Description

The SCADA system provides a centralized platform for monitoring and controlling the metro system. It interfaces with the PLC to gather real-time data from sensors and displays it through a user-friendly interface. The SCADA system can send control commands to the PLC and raise alarms in case of system malfunctions.

4. CONCLUSION AND FUTURE SCOPE

Project Summary

This project successfully demonstrates an automated electric metro system controlled through PLC and SCADA. The system incorporates:

- Dual power supply for enhanced operational flexibility.
- A parallel track design for smooth train operations.
- An automatic train cleaning system.
- Efficient control of auxiliary systems like lighting.

Challenges Faced

Key challenges included:

- Managing dual power supply methods.
- Synchronizing track switching with train movement.
- Ensuring sensor accuracy for cleaning and lighting control.
- Configuring the SCADA system for effective monitoring.



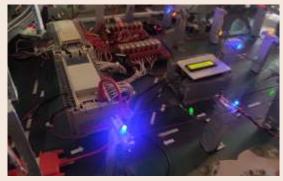


Fig. 5: Yard Lightening System



Fig. 6: Street Lightening System



Fig. 7: Metro Station



Fig. 8: PLC & SCADA Integration

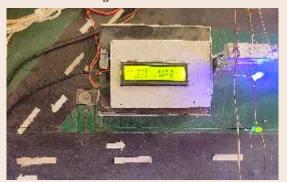


Fig. 9: Information Display System

Future Enhancements

Potential future improvements include:

- 1. Advanced Automation Features: Implementing predictive maintenance.
- 2. Expanded Sensor Network: Increasing the number of sensors for finer control.
- 3. Energy Management: Integrating an energy management system for power optimization.
- **4. Passenger Information System**: Providing real-time updates on train schedules.
- 5. Integration with Urban Infrastructure: Coordinating with traffic and emergency services.
- **6.** Remote Access and Monitoring: Allowing operators to control the system from mobile devices.

REFERENCES

- [1] Y. Wang, X. Zhang, "Integration of AI with SCADA for Enhancing Metro System Efficiency," *IEEE Transactions on Automation Science and Engineering*, vol. 20, no. 3, pp. 1235-1245, 2023. doi:10.1109/TASE.2023.3051030.
- [2] S. K. Singh, P. Kumar, "Advanced SCADA Systems for Automation in Urban Metro Rails," *International Journal of Smart Grid and Clean Energy*, vol. 12, no. 1, pp. 45-53, 2023. doi:10.12720/sgce.12.1.45-53.
- [3] H. Patel, A. Mehta, "Emerging Trends in PLC-Based Control Systems for Metro Automation," *Journal of Control and Instrumentation Engineering*, vol. 35, no. 4, pp. 123-130, 2022. doi:10.1016/j.coneng.2022.03.018.
- [4] M. Rahman, S. Verma, "Smart Monitoring of Metro Rail Systems using SCADA and IoT," *International Journal of Electrical and Electronic Engineering & Telecommunications*, vol. 12, no. 2, pp. 92-98, 2023. doi:10.18178/ijeetc.2023.12.2.404.
- [5] D. Singh, S. Patel, "Integration of Smart Sensors with PLC-SCADA Systems in Modern Metro Networks," *Advances in Intelligent Systems and Computing*, vol. 1619, pp. 233-241, 2023. doi:10.1007/978-3-031-28961-3 20.

For more information, please visit YouTube video:

https://youtube.com/watch?v=JXZtEfHynhs&feature=shared



In-House Conference on National Space Day

The Department of Management Studies at Sobhasaria Group of Institutions organized a one-day in-house

conference on August 23, 2024, in celebration of National Space Day. The conference was inaugurated by Dr. A.S. Rao from Mody University, who served as the resource person for the event. Seventeen papers were presented by both faculty members and students, showcasing research from various fields.

The conference provided a platform for participants to engage in discussions on diverse topics, ranging from advancements in mechanical engineering to studies on social media's psychological impact. It also highlighted



interdisciplinary research contributions from law, civil engineering, computer science, and management studies. The valedictory session was addressed by Dr. L. Solanki, Group Principal, who delivered the vote of thanks, recognizing the contributions of all participants and the organizing team.

List of Papers and Authors:

1	Title : Experimental Investigation on Mechanical Properties for Active Flux TIG Welding of Dissimilar Metals. Author: Hemant Bhati, Assistant Professor, Department of Mechanical Engineering, Sobhasaria Group of Institutions, Sikar
2	Review on Super Hydrophobic Coating for Solar PV Modules. Author: Jagdeep Kumar, HOD, Department of Mechanical Engineering
3	Title: Recent Developments in Criminal Laws in India. Author: Dr. Ruchi Sharma, Vice Principal, Sobhasaria School of Law
4	Title : Contribution of Inventory Management to the Overall Logistics and Supply Chain of an Organization. Author: Dr. Sanjay Kumar Sharma, Associate Professor, Department of Mathematics
5	Title : Review on Crystalline Admix as Self-Healing Cementitious Composite for Concrete. Author: Vignesh Ganesan, HoD, Department of Civil Engineering
6	Title: The Rise of Women Entrepreneurs in India. Author: Saurav Chowkrika & Muskan Sharma, MBA IV Semester, Department of Management
7	Title : Transforming Logistics: The Future of Supply Chain with Drones and Robots. Author: Garima Somani, MBA IV Semester, Department of Management Studies
8	Title : Digital Image Fusion via Dictionary Learning Technique. Author: Mr. Hemant Pareek, Assistant Professor, Department of Computer Science & Engineering
9	Title : Automated Diagnosis of Cotton Plant Diseases Using Hybrid CNN-RNN Models and Advanced Image Analysis Techniques. Author: Sakshi Agarwal, Student, Department of Computer Science
10	Title : A Review on Unemployment in India Using Machine Learning Algorithms. Author: Priyanka Khanna, Department of Computer Science
11	Title: Phishing Attack. Author: Anushka Pareek, Department of Computer Science
12	Title : The Social and Psychological Impacts of Social Media. Author: Amaresh Tyagi, Assistant Professor, Department of Management Studies
13	Title : A Systematic Literature Review on How Buyers Assess Merchandise When It's Virtual. Author: Adity Boruah, Assistant Professor, Department of Management Studies

14	Title: Translating the Hills: A Study of Ruskin Bond's Literature and Its Journey to Screen. Author: Gunjan Agarwal, B.A. III Sem, under the guidance of Ajay Bahuguna, Assistant Professor, English
15	Title : A Literature Review on Mergers and Acquisitions. Author: Sanofar Khatri, Assistant Professor, Department of Management Studies
16	Title: Samskaras: Example of Indian Cultural Sustainability. Author: Ayush Sharma, B.A. III Sem
17	Title: Rajasthani: The Missing Piece in India's Language Puzzle. Author: Sneha Sharma, B.A. III Sem Studies

The detailed papers will be published in subsequent editions of the Sobhasaria TIMES.

Mr. Sandeep Jangir, a 2010 graduate from the Electrical Engineering branch of our institution, has made history as a Scientist at the Indian Space Research Organization (ISRO), playing a pivotal role

Sandeep Jangir Sr. Scientist, ISRO

in the successful launch of Chandrayaan-3, a mission dedicated to exploring the lunar surface.

During his time at our institution, Mr. Sandeep not only excelled academically but also demonstrated an unwavering commitment to his dreams. His exceptional academic performance earned him a prestigious Gold Medal from Rajasthan Technical University, Kota, where he stood as the top achiever in Electrical Engineering. His journey, however, is even more remarkable given his humble beginnings, coming from a family with limited financial resources and a farming background. He is a shining example of perseverance and hard

work, overcoming challenges to achieve his goals.

The Management, Faculty, and the entire student body take immense pride in Mr. Sandeep Jangir's extraordinary accomplishments. His success stands as a beacon of hope and inspiration for all aspiring scientists and engineers, and we look forward to seeing him achieve even greater heights.

Faculty Achievement in Research & Publication



Mr. Sanjay Kumar SharmaAssistant Professor
Applied Sciences & Humanities

Enrolled in the Ph.D. program at Mody University, Laxmangarh, Sikar, on July 29, 2024.



Mr. Vignesh Ganesan HOD Civil Engineering

Mr. Vignesh Ganesan presented a joint research paper titled "Viability of Plastic Waste as Sustainable Concrete Constituents: A Systematic Review" at the Sustainable Materials, Environment and Technologies Under Climate Change (SMET-2024) conference held at N.I.T Kurukshetra on July 26, 2024.



Mr. Vijay Jangir Assistant Professor Civil Engineering

Mr. Vijay Jangir presented a joint research paper titled "Viability of Plastic Waste as Sustainable Concrete Constituents: A Systematic Review" at the Sustainable Materials, Environment and Technologies Under Climate Change (SMET-2024) conference held at N.I.T Kurukshetra on July 26, 2024.



Mr. Sunil SharmaAssistant Professor
Computer Science & Engineering

Significant contributions were made in the field of computing with the publication of three Scopus-indexed papers in the journal Application of Computing Machinery on May 13, 2024. These papers include: [1] "A Machine Learning Based Framework to Classify X-rays Anomaly," [2] "Image-Based Security System in Cloud Resource Scheduling," and [3] "Current Status and Future Directions for Crowd Management Using Machine Learning." The research demonstrates a strong focus on machine learning applications in healthcare, security, and crowd management. Further academic advancement was achieved with enrollment in Ph.D. studies at UEM, Jaipur, on July 1, 2023.



Mr. Naresh Mathur Assistant Professor Computer Science & Engineering

Enrolled in Ph.D. programs at Bikaner Technical University (BTU), Bikaner on May 27, 2024.



Mr. Hemant Pareek
Assistant Professor
Computer Science & Engineering

Enrolled in Ph.D. programs at Bikaner Technical University (BTU), Bikaner on May 27, 2024.



Mr. Dileep K Agarwal HOD Computer Science & Engineering

Dileep K Agarwal, HOD of the CSE Department, has published several research papers. In August 2024, his paper "Diabetic Retinopathy Detection Using Convolution Neural Networks" was accepted by the Scopus-indexed journal IJISAE, and "A Research on Unemployment in India Using Machine Learning Algorithms" appeared in the UGC Care-listed GIS Science Journal. In July 2024, he published "Enhancing Student Performance Prediction with Ensemble Learning Models" in IJRAR, following two June 2024 papers in the same journal: "Secure File Storage on Cloud Using Hybrid Cryptography in Python" and "Securing Data Using Steganography Technique." Additionally, he published "A Review on Unemployment in India Using Machine Learning Algorithms" in IJTRE in March 2024.



Aakansha Mitawa Assistant Professor Computer Science & Engineering

In 2024, several publications were made by the author. "Safeguarding Financial Transactions with Cryptocurrency" was published in Data Science & Applications, Lecture Notes in Networks & Systems, a Scopusindexed journal, in February. Additionally, a chapter titled "Cryptocurrency: New Architecture for Financial Transactions" was contributed to the book Changing Trends in Accounting & Finance, published by INSPIRA in February. Two papers, "React Functionality to Make Website Easier" and "Enhancing E-commerce Platforms Through MERN Stack Implementation," were published in IJMRAS in May 2024. Lastly, "Design a Secure Transaction Using Blockchain" was accepted by IJISAE in July 2024.



Mr. Nitesh K Jangir Assistant Professor Computer Science & Engineering

In April 2024, two papers were published in IJTRE: "Smart Home Automation System Using Internet of Things" (co-authored) and "A Review on Prediction of Human Health & Lifestyle Using Machine Learning Algorithms." These works explore IoT automation and machine learning in healthcare.



Mr. Sunil BijarniyaAssistant Professor
Computer Science & Engineering

Three Scopus-indexed papers were published in Application of Computing Machinery on May 13, 2024. These papers are titled: "A Machine Learning Based Framework to Classify X-rays Anomaly," "Image-Based Security System in Cloud Resource Scheduling," and "Current Status and Future Directions for Crowd Management Using Machine Learning." The research focuses on applying machine learning to healthcare, cloud security, and crowd management.



Mr. Ravi Kumar Soni HOD Electrical Engineering

Two significant works were published on solar energy. The first, "Comparative Study of 100 KWp on Grid Solar Power Plant in Different Locations in India," appeared in the International Journal of Trend in Scientific Research and Development (UGC Care-listed, Vol-8, Issue-4, July-August 2024). The second, "Design and Analysis of an On-Grid Solar Plant across Diverse Regions in India," was submitted to IEEE TENSYMP-2024 and is expected to be published after the conference in September 2024. Both studies explore the performance and design of on-grid solar power plants across different regions in India.



Ms. Shilpa Agrawal Assistant Professor Electrical Engineering

Enrolled in the Ph.D. program at Bikaner Technical University, Bikaner, on June 1, 2024 $\,$



Mr. Jagdeep Kumar HOD Mechanical Engineering

In 2024, two papers were published: "Exploring Alternative Technologies In Modern Vehicles" and "Analysing Vehicle Performance for Petrol, Hybrid And Electric Cars Using MATLAB," which appeared in the International Journal for Technological Research in Engineering on March 7, and "Optimizing Solar Energy Harvesting: The Crucial Role of Regular Cleaning in Mitigating Dust-Induced Efficiency Losses," published in the Journal of Electrical and Power System Engineering, Volume 10, Issue 1, May 2024. Enrolled in the Ph.D. program at Bikaner Technical University, Bikaner, on July 23, 2023.



Mr. Hemant BhatiAssistant Professor
Mechanical Engineering

Enrolled in the Ph.D. program at Bikaner Technical University, Bikaner, on July 23, 2023.



Mr. Jat Hareshwar Assistant Professor Mechanical Engineering

Two notable publications on solar energy have emerged recently. The first, "Optimizing Grid-Connected Solar PV Systems for Fluctuating Weather Patterns," was published in Modern Thermodynamics in Mechanical System, Volume 06, Issue 1, 2024. The second publication, "Advances and Hurdles in Solar Energy in Rajasthan," appeared in the International Scientific Journal of Engineering and Management, Volume 03, Issue 5, May 2024. These works focus on optimizing solar PV systems and addressing the challenges of solar energy in Rajasthan.



Ms. Adity Boruah Assistant Professor MBA

Adity Boruah contributed a chapter titled "Virtual Reality: A Mechanism for Modern Education" in the book "Transforming Education with Virtual Reality," published in a Scopus-indexed platform on February 6, 2024.



Dr. Ruchi Sharma Assistant Professor LAW

Dr. Ruchi Sharma from the Sobhasaria School of Law participated in several academic events in 2024. She presented papers on law at Kushal Das University, Hanumangarh , S.S. Jain Subodh PG Mahavidyalya, Jaipur , and University Institute of Legal Studies, Chandigarh . She contributed to an international seminar at Rajiv Gandhi National University , attended a Faculty Development Program at Subodh Law College, Jaipur , and guided Rachna Batra's Pre-Ph.D. presentation at Maharshi Arvind University, Jaipur.



Dr. Harshita GargPrincipal
Degree College

Dr. Harshita Garg, author of the book titled "Mathematics Calculus" for B.Sc. II-Semester, has published her work in accordance with NEP-2020. The book, was released in February 2024, is published by Thakur Publication, Jaipur, and has the ISBN No. 978-93-5755-708-5.



Bhim Chand Kumawat Assistant Professor Commerce

Published a peer-reviewed article in the UGC Care-listed journal Bohal Shodh Manjusha, Vol. 19 (3), in March 2024. The article, titled "Rajasthan's Solar Exploration: From Desert Sands to Renewable Energy Leadership," examines Rajasthan's transformation into a leader in renewable energy initiatives. Enrolled in a Ph.D. program at Jai Narain Vyas University, Jodhpur, on 19 January 2024.



Neeraj Parashar Assistant Professor BCA

Enrolled in a Ph.D. program at the University of Engineering and Management on 15 February, 2024.



Nitin Soni Assistant Professor BCA

Mr. Nitin Soni has made two notable contributions. His first paper, "IoT with Animal Ecology – Next Smart Farming Evaluation," was published in the UGC Care-listed journal IJSREM on 02 February 2024. Additionally, he presented his paper titled "Unleashing the Potential of AI in the Classroom" at the International Conference on Multidisciplinary Aspect of AI & IoT for Sustainable National Development, held on 29 February 2024. Enrolled for his Ph.D. at Bikaner Technical University on 31 May, 2024.



Pritam Prasad Lata Assistant Professor BCA

Mr. Pritam Prasad Lata has submitted his research paper titled "Computer-Generated Environment for Virtual Reality and Digital Information Technologies" in a Scopus-indexed journal by Wiley.



Jyoti SharmaAssistant Professor
Mathematics

Ms. Jyoti Sharma began her Ph.D. studies at PDUS University, Sikar, on 1 May, 2024.

Organize Life-Saving Blood Donation Drive

A Blood Donation Camp was successfully organized under the joint aegis of Sobhasaria Group of Institutions and Rotary Club, Sikar on 13 August 2024. This event, aimed at contributing to the noble cause of saving lives, saw active participation from students, faculty members, and notable figures from the community.

The event commenced with the ceremonial lighting of the lamp before the idol of Mother Saraswati, symbolizing the commencement of this noble initiative. Group Principal Dr. L. Solanki, along with Group



Registrar Pradeep Sharma, Sobhasaria College Principal Dr. Harshita Garg, Sobhasaria Law College Principal Dr. R.P. Shringirishi, and representatives from the Rotary Club including Shri Laxmikant Biyani and CA Sanjay Kumawat, graced the occasion with their presence.

The event witnessed the active involvement of several key personalities, including Dr. Anita Rathi, Dr. Rashmi Saini, Dr. Bini Singh, Dr. Deepak Garg, Anubhav Jain, Dr. Jitendra Kacholia, Dr. Ankush Rathi, CA Sushil Aggarwal,



Dr. Amar Singh Kavia, CA Sunil Mor, Dr. GL Rathi, Dr. SL Soni, Kishore Pareek, Dr. Divya Kacholia, Ramesh Goyal, Dr. Balwant Singh Chirana, Jagdish Kumawat, Jayshree Kumawat, Lalit Kumawat, along with the staff and students of the institution.

Group Principal Dr. L. Solanki emphasized the importance of ensuring the health and safety of the donors before blood donation. He mentioned that a thorough registration and health check-up were conducted to ensure that the donors were fit to donate blood. The camp saw an overwhelming response, with a total of 119 units of blood collected. Of these, 75 units



were donated by male students, 16 units by female students, and 28 units were contributed by faculty members and Rotary Club participants.

CA Sunil Mor highlighted the multiple health benefits associated with blood donation, including the prevention of diseases like blood disorders, heart diseases, and other serious conditions. He also pointed out the mental health benefits of donating blood, emphasizing how it contributes to the overall wellbeing of an individual.

Group Registrar Pradeep Sharma shed light on the critical role of blood donation in the treatment of serious diseases and life-saving surgeries, particularly in medical emergencies. He stated that a simple act of donating blood can save a life and bring new hope to families in distress.

Sobhasaria College Principal Dr. Harshita Garg underscored that blood donation is not merely an individual choice but a societal responsibility. She urged everyone to contribute to this cause, which plays a crucial role in saving lives.

The event was marked by great enthusiasm and a strong sense of community service, reflecting the commitment of Sobhasaria Group of Institutions and Rotary Club, Sikar, to social responsibility and public welfare.

Anti-Ragging Week at Sobhasaria Campus

From 12th August 2024 to 17th August 2024, various higher educational institutions under the aegis of Sobhasaria Group Institutions observed Anti-Ragging Week in accordance with the UGC mandate. The week was marked by an array of activities aimed at raising awareness about the importance of creating a ragging-free campus environment.

Students enthusiastically participated in diverse activities such as poster-making, slogan writing, and organizing dramas, musical events, and more, all centred around the theme of anti-ragging. The events were successfully organized by Sobhasaria Engineering College, Sobhasaria Degree College, and The Sobhasaria School of Law.

The highlight of the week was a Walk Against Ragging, which took place on 17th August within the Campus. This event saw the active participation of students and faculty alike, demonstrating the collective commitment of the institutions to eradicate ragging.

Faculty members addressed the students, emphasizing the presence of an anti-ragging squad within the institutions. They also made the students aware of the various adverse effects of ragging through documentaries, short films, and TV commercials, driving home the message that ragging has no place in an academic setting. The week-long observance reinforced the institutions' dedication to maintaining a safe and respectful environment for all students.







A Diary: Sobhasaria Institute of Career & Skills

1. Quiz Contest on World Creativity and Innovation Day

Sobhasaria Group of Institutions organized a Quiz Contest cantered around the theme of Communication. The quiz emphasized modern communication tools in education, blending traditional and modern approaches to improve teaching and learning experiences.

Date: 21 April 2024



2. World Intellectual Property Day Talk Show

To celebrate World Intellectual Property Day, a talk show was organized by the Institute Innovation Cell of Sobhasaria Group of Institutions, focusing on the significance of intellectual property in fostering innovation.

Date: 26 April 2024



3. Quiz Contest on C Language Programming

A Quiz Contest for B.Tech 1st Year, Section C, focusing on C Language Programming, aimed to enhance students' knowledge of programming concepts. Winning teams were recognized for their exceptional performance.

Date: 4 May 2024



4. National Technology Day - AI Seminar

On National Technology Day, a seminar focused on Artificial Intelligence was held, with discussions on Generative AI and Deep Fake Technology. Students showcased their knowledge in a quiz contest, with winners Manish Saini and Lakshya Singh Shekhawat.

Date: 11 May 2024



5. Photography Competition

A photography competition was held, showcasing the creativity and unique perspectives of students. Each participant brought their own style to the competition, displaying originality and artistic talent.

Date: 16 May 2024



6. Short Film - Rediscovering Literature "Mobile or Books"

A short film, created by Sobhasaria students, illustrated the transformative journey of the protagonist from mobile addiction to rediscovering the joys of reading and academic success.

Date: 22 May 2024



7. Digital Poster Competition

Students demonstrated their creativity and digital design skills by participating in a Digital Poster Competition. Punit was declared the winner for his exceptional design and creativity.

Date: 4 June 2024



8. Alumni Interaction Program

Alumni engaged with B.Tech 1st-year students, sharing experiences and advice, focusing on building well-rounded skill sets for future

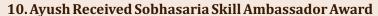
Date: 9 June 2024



9. Book Launch of The Undefined Men

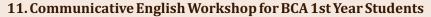
A book launch event was hosted for The Undefined Men by Nidhi Sharma, focusing on societal and familial struggles. The event celebrated Nidhi's literary achievement.

Date: 15 June 2024



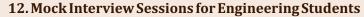
Ayush Jain, a computer engineering student, was honored with the Sobhasaria Skill Ambassador Award for his exceptional skills, presented by Group Principal Dr. L. Solanki.

Date: 29 June 2024



A workshop aimed at enhancing communication skills for BCA 1st-year students was organized using interactive and activity-based learning methods.

Date: 18 July 2024



The Department of Civil Engineering, in collaboration with SICS, conducted mock interview sessions to prepare students for job interviews, focusing on refining their communication and professional skills.

Date: 23 July 2024

13.40 Days English Communication Program

A 40 Days English Communication Program was launched to enhance the English language skills and personality development of students across various disciplines. The program was designed to provide rigorous training through a variety of interactive and engaging methods. Students from Engineering, Law, Degree College, and Management College were selected based on an entrance test to join the program. The program was inaugurated by Group Principal Dr. L. Solanki, who welcomed the participants and set the tone for the sessions. The program included facilitated discussions to improve verbal communication and critical thinking skills, structured lessons focusing on grammar, vocabulary, and effective language use, engaging activities to build confidence and enhance expressive skills, and simulated interview scenarios to prepare students for real-world job interviews. Various other activities were conducted to ensure comprehensive training and development. Participants gained confidence and proficiency in English, better preparing them for academic and professional challenges.

Date: From 1 June-31 July 2024















The Unyielding Pillar: The Role of Consistency in Achieving Success

Nishant Mathur Academic Coordinator Department of Arts



Consistency plays a pivotal role in the pursuit of success. Staying consistent is the key to achieving our goals and reaching new heights. It provides us with the necessary foundation and enables us to navigate through the challenges that arise along the way. Without consistency, our endeavors can falter, and our progress may come to a standstill.

Consistency serves as an unyielding pillar, offering unwavering support through the ups and downs of our journey. It sets the rhythm of our actions and ensures that we remain focused and dedicated to our objectives. By maintaining consistency, we are able to cultivate a sense of discipline and perseverance that propels us forward towards success.

Moreover, consistency strengthens our skills and abilities. It allows us to continuously practice and refine our craft, building a solid and reliable foundation of expertise. Consistent efforts pave the way for mastery, as every small step taken consistently adds up to significant progress over time. By committing to consistency, we can push past our limitations and unlock our full potential.

Additionally, consistency breeds trust and reliability. When others observe our consistent behavior and dedication, they develop confidence in our abilities. Whether it be in personal relationships or professional connections, consistency establishes a sense of dependability and integrity. It becomes a defining trait that others can rely on, making us more credible and fostering strong bonds of trust.

However, it is important to note that consistency should not be mistaken for rigidity. While consistency implies a regularity of action, it also requires adaptability. Life is filled with unpredictable circumstances and unforeseen challenges. To truly succeed, we must be able to adapt our methods and approaches while still maintaining a consistent mindset and drive towards our goals. Flexibility is the key to ensuring that consistency remains an effective tool for success.

In conclusion, consistency is the unwavering cornerstone that guides us towards success. It enables us to overcome obstacles, develop our skills, build trust, and ultimately achieve our aspirations. By embracing consistency in both our actions and mindset, we can forge a path towards a fulfilling and successful life.

Consistency is a crucial element that forms the foundation of accomplishment, providing the unwavering commitment and steadfast dedication needed to succeed. In this piece, we delve into the essential role consistency plays in achieving goals, nurturing personal development, and attaining triumph in diverse pursuits.

"A Steady Path to Success" provides essential information that can guide individuals toward achieving their goals and aspirations.

The content offers valuable insights and strategies that can lead individuals on a consistent and successful journey towards their desired outcomes. It emphasizes the importance of setting clear goals and maintaining a focused mindset throughout the process.

Furthermore, it highlights the significance of perseverance and determination in overcoming obstacles and challenges along the way. By maintaining a steadfast approach, individuals can navigate through difficulties and emerge stronger on the path to success.

Moreover, "A Steady Path to Success" emphasizes the need for continuous learning and self-improvement. It encourages individuals to stay updated with the latest developments in their respective fields and to seek opportunities for personal growth.

In essence, this content serves as a valuable resource for those aspiring to achieve success. It serves as a reminder that success is not an overnight achievement but a result of consistent effort, determination, and a steadfast approach.

Consistency serves as the foundation of progress, offering the stability and continuity required for continuous growth. It guarantees that endeavors, deeds, and motivations synchronize seamlessly, nurturing a dependable path towards achieving success.

"Cultivating discipline and habit is essential for personal growth and success. It is through these practices that we can develop a sense of control and consistency in our lives, enabling us to achieve our goals and fulfill our potential. Discipline involves setting clear goals and establishing a structured routine that keeps us focused and motivated. By making a conscious effort to prioritize our tasks and manage our time effectively, we can avoid procrastination and stay on track. This requires self-control and the ability to make sacrifices in the short term for long-term benefits.

Habit, on the other hand, is the repetitive nature of our actions. By consistently engaging in positive habits, we can shape our behavior and improve our overall well-being. Whether it's waking up early, exercising regularly, or practicing mindfulness, incorporating these activities into our daily lives creates a foundation of stability and self-improvement.

By cultivating discipline and habit, we can transform our lives and achieve success in various aspects, such as personal relationships, career advancement, and overall happiness. It may not always be easy, but with perseverance and consistency, we can overcome challenges and build a solid foundation for continuous growth and development."

Consistency plays a pivotal role in fostering discipline and facilitating the development of habits. It establishes a consistent pattern of behavior that is in line with long-term goals. Through repeatedly engaging in deliberate actions, individuals fortify their routines, driving ongoing enhancement and personal growth.



मीत की प्रीत

वो जो थे समझदार आगे आए प्रयत्न किया उन्होंनें कि मीरा को कुछ तो समझाए कहा-दुनिया कैसे देख पाओगी ? यदि ये आँखे यूँ ही एक सुरत पर ठहरी रह जाए!! नादान दिल का हाल क्या बताए ? की जिसे एक सूरत में ब्रह्माण्ड का सार नजर आए, वो अब जगत माया देखने क्या जाए ? सत्य हैं। जग में नहीं ढूँढती वो मीत अपना और तथ्य हैं कि मन में उसकें कृष्ण है समाए, क्षण भर संशय किया नहीं उसने सुमिरन कर नाम गोविन्द का, बस एक श्वास में पी लिया, देने वाले अचरज में पड़ गए क्या संभव है एक ग्वाला इच्छा को अमृत कर पाए ? साथ केशव का दाव पर था जहाँ-जहाँ मीरा - लेखिका दोनों ही वो रणछोड आए !! कितने प्रश्न किए मीरा से और न जाने कितने है अभी अंतस में साधे कुछ प्रश्नों के उत्तर मीरा लिखती, कुछ अनकहे छोड़, मीत की प्रीत के गीत में रम जाएं। भक्तिन के वश में नहीं प्रपंच वाद-विवाद का . उनसे करो सवाल, मीरा - लेखिका की पीडा का प्रतिशोध लेने स्वंय माधव है आए ।।



Sneha Sharma BA III Sem

ये कलयुग है

में ही काल, मैं ही काली हन युग में नन-उत्तम

क्यूं नानी बेचानी ? क्युं देव-युग में भी

जानकी औन याञ्चन्मैनी थी खनी ?

पन तुम भी तो इतिसम्र दौट्ना नहीं से प्रग–प्रग अधिष्टता न्यस्ती जा नहीं से ये कलयुग है; ये याद कनो

ना कृष्ण का ना नाम का इन्जान कनो फूल नहीं तुम फूलन बनों

काली बनों काल बनों

न्तुद ही न्तुद की ढाल बनों मिटा दे जो

नरहंकान को अब ऐसी एक मिसाल बनों



शबनम (Bsc-Biology) Ist Year



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Expresses Heartfelt Gratitude

to

Shri Jagdeep Dhankhar Ji and Smt. Sudesh Dhankhar Ji

For graciously consenting to be with us on the auspicious occasion of our

SILVER JUBILEE FOUNDATION DAY

Program 19th October, 2024

