



VOICES



VOLUME NO.02 | ISSUE NO.5 | MAY 24

E -MAGAZINE OF SHREE MAHAVIR EDUCATION SOCIETY, NASHIK

Vision

“Mahavir Education Society strives to educate students to become Industry Ready Engineers having Professional Attitude and Groomed Personality.”

Mission

To provide well-defined system to ensure quality education by strengthening teaching learning processes.

To provide a platform where students are exposed to the industry, up bridged with the industry standards and requirements.

To train students by teaching them leadership and teamwork skills.

To groom students enriching their personality and social values

Words of Wisdom

Change your thoughts and you change your world.

NORMAN VINCENT

SCOE Launches Exciting New IT and AI BE&ME Programs AICTE Approves Expansion of SCOE's Cutting-Edge Academic Offerings for 2024-2025



BE – AIML

BE – IT

ME- AI

ME- Computer

Sanghavi College of Engineering (SCOE) is excited to announce the addition of two new undergraduate Bachelor of Engineering (BE) courses in Information Technology (IT) and Artificial Intelligence and Machine Learning (AIML), as well as two new postgraduate Master of Engineering (ME) courses in Computer Engineering and Artificial Intelligence (AI). The All India Council for Technical Education (AICTE) has granted approval for these courses, which will commence in the academic year 2024-2025. SCOE, established in 2012, initially offered undergraduate BE courses in Computer Engineering, Civil Engineering, Mechanical Engineering, and Electrical Engineering. The introduction of these new courses marks a significant expansion of the college's academic portfolio, enhancing educational opportunities for students in both rural Dindori and Nashik city.

The successful launch of these new programs is a testament to the visionary leadership of Chairman Mr. Harish Sanghavi, the meticulous execution by Managing Trustee Mr. Rahul Sanghavi, and the dedicated efforts of Director Dr. Priyanka Zawar. Their combined commitment has culminated in a fruitful outcome that will greatly benefit the student community. Dr. Bajirao Shirole, Principal of Sanghavi College of Engineering, expressed his enthusiasm about the expansion, stating, "The addition of these cutting-edge courses in Information Technology and Artificial Intelligence and Machine Learning reflects our commitment to providing our students with the latest and most relevant educational opportunities. This development will significantly enhance the learning experience and future career prospects of our students." The atmosphere at SCOE and Mahavir Education Society is filled with excitement and pride as they celebrate this significant milestone. The new courses are expected to attract a diverse group of students, eager to engage with advanced technologies and innovative learning environments.

Mahavir' Students Achieve Success in Campus Placements Sudarshan Deshmukh Joins NAMCO Hospital, Rohit Chavan Selected by USV Pharma



Sudarshan Deshmukh
POLYTECHNIC

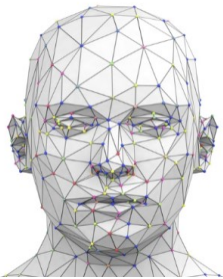
Rohit Chavan
B.PHARMACY

Mahavir Education Society is proud to announce the outstanding achievements of its students in campus placements. Sudarshan V. Deshmukh, a Computer Engineering student from Mahavir Polytechnic Nashik, TYCO, has been selected by NAMCO HOSPITAL as an Information Technology Technician Engineer for the academic year 2023-2024. Sudarshan V. Deshmukh's selection is a testament to the high quality of education and training provided by Mahavir Polytechnic's Computer Engineering Department under the leadership of Prof. Anup Sonawane, Head of Department, and Principal Dr. Sambhaji Sagare. The Training and Placement Department of the institute played a crucial role in preparing Sudarshan for this opportunity.

Additionally, Rohit Chavan, a student of Mahavir Institute of Pharmacy (B.Pharm), has been selected by USV Pharma, Vadodara, a leading healthcare company with a legacy of over 62 years. Rohit has been appointed as a Packing Officer with an annual package of 3.1 lakh. His selection underscores the strong academic foundation and practical training imparted by Mahavir Institute of Pharmacy under the guidance of Principal Dr. Anil Jadhav and Dr. Atul Bendale, Training and Placement Officer.

Dr. Priyanka Zawar, Director of Mahavir Education Society, along with Chairman Mr. Harish Sanghavi & Managing Trustee Mr. Rahul Sanghavi, congratulated Sudarshan V. Deshmukh & Rohit Chavan on their remarkable achievements. The entire faculty & student body extend their best wishes to both students for their bright future.

Polytechnic Students Developed Artificial Intelligence Based Advanced Criminal Face Detection System



In a groundbreaking achievement, a team of students from the Computer Engineering Department at Mahavir Polytechnic, Nashik, has successfully developed a sophisticated Criminal Face Detection System. This innovative project, guided by Ms. S.B. Guldagad and Mr. A.D. Sonawane, Head of the Computer Engineering Department, showcases the technical prowess and dedication of the students. The project, titled "Criminal Face Detection," was completed by Ms. Riya Anand Kathe, Ms. Shubhangi Sachin Aherkar, Mr. Aaditya Shailendra Maule, and Ms. Aarati Ganpat Bodke. This initiative aims to enhance the accuracy and reliability of facial recognition technology, particularly for use in law enforcement and security using Artificial Intelligence.

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**"To win big,
you sometimes
have to take big
risks."
— Bill Gates**

The students' new system utilizes advanced Deep Learning techniques, specifically leveraging the Dlib face recognition library. By employing Deep Metric Learning for facial embeddings, the system enhances the efficiency and accuracy of recognizing faces, even under challenging conditions. The system is capable of real-time face detection and recognition, making it highly effective for use in security and surveillance applications. This feature is critical for law enforcement agencies to quickly identify and apprehend suspects.

The project involved gathering and preprocessing a diverse set of facial images. This extensive dataset, including images under various conditions such as different lighting, poses, and expressions, was used to train the model, ensuring robust performance. The system consists of several key modules, including Image Acquisition, Preprocessing, Feature Extraction, Model Training, Performance Evaluation, and Deployment. Each module plays a vital role in the overall functionality of the system.

The project team plans to further enhance the system by integrating more advanced neural network architectures and exploring novel training strategies. Additionally, there are plans to optimize the system for better computational efficiency to enable real-time processing on various devices. The project's scope includes developing and implementing a facial recognition system that significantly improves the accuracy, reliability, and efficiency of facial recognition tasks. The system is designed to address variations in illumination, pose, expression, and occlusion, ensuring high performance in real-world scenarios. Rigorous testing and validation on benchmark datasets have been conducted to assess the system's effectiveness.

Principal Dr. Sambhaji Sagare expressed his pride in the students' achievement, stating, "The development of this Criminal Face Detection System is a testament to the hard work and innovative spirit of our students and faculty. It represents a significant contribution to enhancing public safety and security." HOD Mr. A.D. Sonawane also commended the students, saying, "Our students have demonstrated exceptional technical skills and dedication in developing this advanced system. Their work bridges the gap between academic learning and practical application, showcasing the potential of our educational programs."

Mahavir Polytechnic, under the auspices of the Shree Mahavir Education Society, is committed to providing high-quality technical education and fostering innovation among its students. The institution's focus on practical, real-world applications of technology prepares students to excel in their careers and make meaningful contributions to society.



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"निंदेला घाबरून आपल
ध्येय सोडू
नका
कारण ध्येय साध्य होताच
निंदा करणाऱ्यांची मत
बदलतात."



Successful Project Oral Examination Highlights Innovation & Industry Sponsorship



In a commendable display of innovation and academic prowess, the BE Mechanical 2023-24 batch recently underwent a rigorous project oral examination on May 31, 2024. The examination, overseen by esteemed external examiner Professor Jaganath Salve from MGM's College of Engineering, Nanded, showcased the exceptional quality and ingenuity of the students' work. The project, which received praise for its innovative approach and industry sponsorship, reflects the dedication and hard work of the students involved. Professor Salve commended the students for their exemplary performance and the practical applicability of-

-their project. Behind the success of this examination lies the concerted efforts of the project coordinator, Professor G.B. Kudal, who meticulously arranged the examination under the guidance of the Head of Department, Professor Pravin Renuke. Their leadership and support provided the necessary framework for the students to excel and showcase their skills. The examination not only validated the students' academic capabilities but also underscored the relevance of industry collaboration in academic projects. The sponsorship and involvement of industry stakeholders further enriched the project's outcomes, emphasizing its real-world impact and applicability.

Students Capture Final Moments with Beloved Teachers



As the academic year draws to a close, the last-year BE students of Sanghavi College of Engineering have created lasting memories by capturing heartfelt photos with their mentors and teachers.

The final day of exams was marked by a deep sense of nostalgia and camaraderie. Students and teachers alike reflected on the journey they shared, filled with academic challenges, personal growth, and countless memorable moments. The close-knit relationships between students and staff were evident as they gathered to commemorate their time together with a series of snapshots. BE students of Sanghavi College of Engineering move forward to new adventures and career paths, the memories captured in these photos will serve as a lasting testament to the bonds and experiences that have shaped their academic journey.



SCOE Students Publish Research in Prestigious Journal



Akshay Shinde



Mayur Bhusare



Aditya Kaloge



Mayur Pagar



Subodh Kedare



Prof. Snehal Uphade

Final year students of the Electrical Engineering Department at Sanghavi College of Engineering have achieved a significant milestone by publishing their research in the esteemed 'Innovative Journal for Opportunities and Development in Science & Technology'. The research paper, titled "Automatic Railway Security Control System," was authored by Akshay Shinde, Mayur Bhusare, Aditya Kaloge, Mayur Pagar, and Subhodh Kedare under the guidance of Prof. Snehal Uphade. The research focuses on developing an automated railway security prototype model that leverages advanced electronic circuits, a communication module, and mobile interfaces to prevent collisions and enhance communication between trains, central control headquarters, and passengers. Implemented on an integrated Arduino Uno platform, the system introduces automatic control of railway crossing gates, switching of train tracks, and detection of line cracks using electronic sensors such as IR sharp sensors, ultrasonic sensors, and gyroscopes. One of the key features of the system is the integration of a web camera, which allows control room operators to receive real-time updates and continuously monitor the behavior of the train during its journey. This enhancement ensures that railway gates can be highly controlled and road traffic can be effectively managed, particularly during dangerous trips. The developed dummy car within the system can detect and monitor potential risks on the railway lines, promptly reporting any faults to the concerned authorities. Prof. Snehal Uphade, who guided the students throughout the research, expressed pride in their achievement, stating, "This publication is a testament to the hard work and dedication of our students. Their innovative approach to railway security has the potential to significantly improve safety and communication within the railway system." The college community, including Principal Dr. Bajirao Shirole, HOD Rahul Bankar and the entire Electrical Engineering Department, congratulates Akshay Shinde, Mayur Bhusare, Aditya Kaloge, Mayur Pagar, and Subhodh Kedare for their remarkable contribution to the field of engineering.

SCOE Professors Publish Groundbreaking Research in International Journals



Prof. Deelip B. Kalekar



Prof. Nilesh N. Shewale

Sanghavi College of Engineering proudly announces that Assistant Professors Deelip B. Kalekar and Nilesh Shewale have achieved significant academic milestones by publishing their innovative research in renowned international journals.

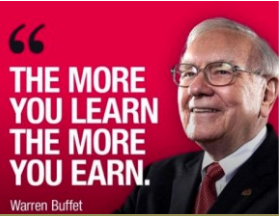
Professor Deelip B. Kalekar's research paper, "The Impact of Modular Construction on Project Delivery & Cost Efficiency," has been featured in the International Research Journal of Modernization in Engineering Technology and Science (IRJMETS), Volume 06, Issue 03, March 2024. This peer-reviewed journal, recognized for its rigorous standards and high impact factor, commended the paper for its insightful analysis of how modular construction can streamline project delivery and enhance cost efficiency.

Professor Nilesh Shewale's paper, "Discrete Fiber Used in Road Pavement,"

- has been published in the International Journal of Scientific Research in Engineering & Management (IJSREM), Volume 08, Issue 04, April 2024. IJSREM, an esteemed scholarly journal indexed in major databases, highlighted the practical significance of Professor Shewale's research in improving road pavement technologies through the use of discrete fibers.

Dr. Bajirao Shirole, Principal of Sanghavi College of Engineering, praised the professors' accomplishments, stating, "The groundbreaking research conducted by Professors Kalekar and Shewale showcases the exceptional talent and dedication of our faculty. Their contributions not only advance the field of engineering but also elevate the academic standing of our institution on a global scale."

Dr. Priyanka Zavar, Director of Mahavir Education Society, along with Chairman Mr. Harish Sanghavi and Managing Trustee Mr. Rahul Sanghavi, congratulated the professors on their impressive achievements. They also commended the collective efforts of the college's teaching and non-teaching staff in fostering a nurturing and innovative research environment.



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Mahavir Polytechnic Students Creates Advanced Fake Currency Detection System



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A team of students from Mahavir Polytechnic in Nashik has developed a new system to detect fake currency, marking a significant achievement in the fight against counterfeit money. Guided by their professor, Miss Sayali D. Desai, and Prof. Anup Sonawane, Head of the Computer Engineering Department, the students designed this innovative project to improve the accuracy and speed of identifying counterfeit notes.

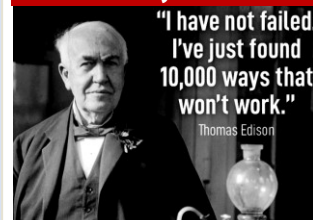
The project, called "Counterfeit Currency Detection," was completed by Miss Prachi Raju Chavan, Miss Payal Sharad Badade, Miss Ishwari Eknath Gangurde, and Mr. Vineet Vijay Parkhe. This work was part of their final year project for the Diploma in Computer Engineering and is recognized by the Maharashtra State Board of Technical Education (MSBTE), Mumbai, for the academic year 2023-2024.

Key Features of the Fake Currency Detection System is, it consists of Deep Learning Technology: The system uses advanced technology called Convolutional Neural Networks (CNNs) and Recurrent Neural Networks (RNNs) to analyze images of currency notes. This helps the system to spot small details and features that distinguish real notes from fake ones, making it very accurate. **The Real-Time Detection:** The system can detect counterfeit notes instantly, thanks to RNNs. It is also designed to work as a smartphone app, allowing people to check the authenticity of their money anytime, anywhere. The students created a large collection of images of both real and fake currency notes. This dataset was used to train the system, ensuring it performs well in various situations.

The system is divided into several parts, including image acquisition, preprocessing, dataset creation, training, model integration, real-time detection, user interface, performance evaluation, deployment, and maintenance. Each part plays a crucial role in the system's overall function. The project team plans to enhance the system further by integrating newer technologies like Generative Adversarial Networks (GANs) and blockchain for even better accuracy and security. They also aim to adapt the system for use with digital currencies.

This development by the students of Mahavir Polytechnic is a notable step forward, showcasing their technical skills and addressing an important issue in the financial sector. With counterfeit currency posing a significant threat to economic stability, solutions like this are essential to protect financial integrity and public trust. The Chairman of the Mahavir Education Society, Mr. Harish Sanghavi, Managing Trustee Mr. Rahul Sanghavi, Director of the Society Dr. Priyanka Zawar, Principal Dr. Sambhaji Sagare, along with all staff and students, congratulated the team for their remarkable achievement. Their hard work and innovation have brought pride to the institution and provided a valuable tool in the fight against counterfeit currency.

Words of Wisdom



Esteemed Alumni-Entrepreneur Lalit Suryawanshi Visits 'Mahavir' Alumni Achievement Inspires Students and Faculty



Mahavir Polytechnic recently had the honor of hosting one of its most distinguished alumni, Lalit Suryawanshi, who is now an entrepreneur and the owner of the renowned "Punam Plastics and Trolley Company". Suryawanshi's company is a leader in the field of automation and advanced manufacturing. His visit was marked by an engaging interaction with students and faculty, including Principal Sambhaji Sagare and the Head of the Computer Department, Anup Sonawane.

Lalit Suryawanshi, a proud alumnus of the class of 2016, has made significant contributions to the manufacturing industry through his enterprise, Pooam Plastics and Trolley Company. Known for its high-quality plastic products and cutting-edge automation solutions, the company stands as a testament to Suryawanshi's vision and entrepreneurial spirit.

His journey from a student at Mahavir Polytechnic to a successful business owner serves as a beacon of inspiration. Principal Sambhaji Sagare and HOD Mr. Anup Sonawane warmly welcomed Suryawanshi back to his alma mater. They expressed their pride in his achievements and thanked him for visiting to share his experiences and insights with the current students. Suryawanshi toured the campus, visiting various labs and workshops where he once honed his skills. He was impressed by the state-of-the-art facilities and the advancements the institution has made. During his visit, he engaged in discussions with faculty members, including Anup Sonawane, about potential collaborations and opportunities for internships and hands-on training for students at Punam Plastics. Principal Sambhaji Sagare expressed his gratitude for Suryawanshi's visit and emphasized the importance of alumni relations.

"Lalit Suryawanshi's achievements are a source of pride for us. His visit and interaction with our students and faculty have been incredibly motivating. We look forward to continued engagement and collaboration," said Principal Sagare. HOD Anup Sonawane also shared his thoughts, stating, "Having successful alumni like Lalit Suryawanshi visit us and share their experiences is invaluable. It bridges the gap between academic learning and real-world application, providing our students with a clearer vision of their future career paths."

The visit of Lalit Suryawanshi not only celebrated his success but also highlighted the strong foundation provided by Mahavir Polytechnic. His story is a testament to the institution's commitment to nurturing talent and fostering innovation. The students and faculty were deeply inspired by his journey and look forward to many more such interactions that bridge the gap between education and industry.



"The greatest glory in living lies not in never falling, but in rising every time we fall."

-Nelson Mandela

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Shree Mahavir
Education Society

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Campus Recruitment Drive Bridges Academia and Industry : 48 Students Secure Job Offers in Successful Pool Campus Event



Mahavir Institute of
Pharmacy
Nashik

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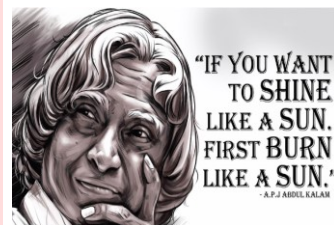
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"IF YOU WANT TO SHINE LIKE A SUN, FIRST BURN LIKE A SUN."
-A.P.J. ABDUL KALAM



On 10th May, Shree Mahavir Institute of Pharmacy, hosted a successful pool campus event with IKS Health, aimed at connecting students and industry. The event saw enthusiastic participation from students, faculty, and IKS Health representatives, providing a great opportunity for job recruitment, networking, and sharing knowledge.

The event began with a presentation by IKS Health, where they introduced the company and explained the job positions available. This helped students understand the company better and prepare for the interviews. After the presentation, the recruitment process started with two rounds of interviews – the HR round and the Technical round. Students were divided into three groups based on their interests and the job requirements: Clinical Data Management (CDM), Virtual Radiology (VRA), and Medical Scribe trainee. This ensured that the interviews were focused and relevant to each student's skills and career goals.

IKS Health also gave feedback to the students after the interviews, highlighting their strengths and areas for improvement. This feedback was valuable in helping students prepare better for future job opportunities. The event was a great success, with over 500 students participating. Out of these, 48 students received job offers in various departments such as Medical Scribe, Virtual Radiology, and Clinical Data Management.

This event not only provided job opportunities for the students but also helped IKS Health find talented individuals to join their team. The pool campus event at MIP highlighted the importance of collaboration between education and industry. Such events play a key role in improving student employability and professional growth. The institute is committed to organizing more events like this to help students achieve their career goals and build strong connections with the industry.

Campus Recruitment Drive at MIP Bridges Academia and Industry IKS Health Pool Campus: Event Highlights and Glimpses.



Mahavir Institute of Pharmacy Celebrates Patent Achievement : Prof. Anagha Sarvadnya Co-Invents Smart Inhaler Design

Mahavir Institute of Pharmacy is delighted to announce that Mrs. Anagha Amit Sarvadnya, Assistant Professor at MIP, has been granted a patent by The Patent Office, Government of India, for her contribution to a Smart Inhaler design. The patent, bearing Original Serial No. 171144 and Design No. 395383-001, was officially registered on September 18, 2023.

The innovative Smart Inhaler design, developed in collaboration with a team of researchers including Arshad Ayub, Dr. Hemant Bareth, Ashwini Kumar Mishra, Anagha Amit Sarvadnya, Shubham Pandey, Dr. Meenu Beniwal, Mrs. Rashmi, and Geeta Rawat, falls under Class 24-04 and marks a significant advancement in healthcare technology, particularly in the field of respiratory care. The Controller General of Patents, Designs, and Trade Marks, Unnat Mandia, issued the Design Registration Certificate on May 29, 2024, recognizing the unique and impactful nature of the patented design. The certificate ensures ownership for a period of ten years from the date of registration, with an option to extend for an additional five years, as per the Designs Act, 2000 and the Designs Rules, 2001.

Prof. Anagha Amit Sarvadnya expressed her excitement on behalf of the team, stating, "Receiving this patent is a testament to our team's dedication to advancing healthcare technology. Our Smart Inhaler design aims to improve patient care and treatment outcomes, and we are eager to see its positive impact in the medical field."

The Chairman of Shree Mahavir Education Society Mr. Harish Sanghavi, Managing Trustee Mr. Rahul Sanghavi, Director of Mahavir Education Society Dr. Priyanka Zawar and The Principal, Dr. Anil Jadhav with all teaching and nonteaching staff congratulates her and her fellow researchers on this remarkable achievement. The institute looks forward to continuing its tradition of excellence in pharmaceutical research and innovation.



Prof. Anagha Sarvadnya