



# VOICES



Shree Mahavir  
Education Society

VOLUME NO.02 | ISSUE NO. 10 | OCT 24

E -MAGAZINE OF SHREE MAHAVIR EDUCATION SOCIETY, NASHIK

## *‘Mahavir’ Celebrates Navratri with Vibrant Festivities and Colorful Traditions*



### 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*

Mahavir Polytechnic students and staff enthusiastically celebrated all nine days of Navratri with a vibrant display of colorful outfits, each representing the auspicious color for the day. This tradition is believed to enhance the festive spirit and connect devotees to the divine energy of the Goddess. The colors for each day were: Yellow (Day 1), Green (Day 2), Grey (Day 3), Orange (Day 4), White (Day 5), Red (Day 6), Royal Blue (Day 7), Pink (Day 8), and Purple (Day 9). These colors symbolized joy, energy, and optimism, perfectly capturing the festive atmosphere on campus. On the ninth day, a special Garba event was arranged, where students enjoyed performing the traditional Garba dance. The celebration fostered a sense of togetherness, cultural pride, and fun, making Navratri a truly memorable experience for everyone at Mahavir Polytechnic.

### Words of Wisdom

Be kind whenever possible. It is always possible.

Dalai Lama

## Civil Engineering Department of SCOE Hosts Educational Visit to ‘Gargoti’ – The Mineral Museum



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### Words of Wisdom

जीनियस 1% टैलेंट है... और 99% हार्ड वर्क.

अल्बर्ट आइंस्टीन



The Civil Engineering Department of SCOE organized an educational visit to Gargoti – The Mineral Museum in Sinnar, Nashik, on October 16, 2024, for 23 second-year students. This visit aimed to deepen their knowledge of rocks and minerals relevant to civil engineering. Guided by Mr. V. Dubey, the museum’s Technical Manager, students explored the properties of igneous, sedimentary, and metamorphic rocks. Mr. Dubey highlighted basalt’s strength and texture, explaining how its rapid cooling gives it fine grains, ideal for construction. A highlight was a rare lunar rock sample, along with a collection of minerals from around the world, including UV-responsive rocks that change color under UV light. The visit, coordinated by Prof. S. R. Kshirsagar and supported by HOD Prof. Toshnil Boraste, enriched classroom learning with hands-on exposure to geological formations. Principal Dr. B.S. Shirole expressed satisfaction with the students’ enthusiastic participation, seeing it as a valuable extension of their academic experience.



## Faculty and Researchers from ‘Mahavir’ Achieve Patent Publication in Wire EDM Process Optimization



**Dr. Sambhaji Sagare**  
PRINCIPAL  
Mahavir Polytechnic, Nashik

**Prof. Swapnil Lokhande**  
Mechanical Engg. Dept.  
Sanghavi College of Engineering

**Prof. Yogesh Khairnar**  
Mechanical Engg. Dept.  
Sanghavi College of Engineering

**Prof. Gaurav Khairnar**  
Mechanical Engg. Dept.  
Sanghavi College of Engineering

**Dr. Atul Bendale**  
HOD  
Mahavir Insti. Of Pharmacy, Nashik



**Prof. Pooja Bhalerao**  
HOD -Mechanical Engg. .  
Mahavir Polytechnic Nashik



**Prof. Santosh Wable**  
Mechanical Engg. Dept.  
Mahavir Polytechnic, Nashik

Shree Mahavir Education Society proudly announces the publication of a patent application titled “Parametric Optimization and Experimental Validation in Wire Electro Discharge Machining (WEDM) Process for OHNS Steel.” Published in the Patent Office Journal No. 42/2024 on October 18, 2024, this achievement underscores the expertise and dedication of the research team in advancing machining technology. Led by Dr. Sambhaji Venkatrao Sagare, Principal of Mahavir Polytechnic, the research team includes esteemed members from all three institutions of Shree Mahavir Education Society. Team members Prof. Gaurav Ramesh Khairnar, Prof. Swapnil Vitthalrao Lokhande, and Prof. Yogesh Sanjay Khairnar from SCOE; Prof. Pooja Anil Bhalerao and Prof. Santosh Madhav Wabale from Mahavir Polytechnic; and Dr. Atul Rupchand Bendale, HOD at Mahavir Institute of Pharmacy, collaborated on this project. Their research is based on the Taguchi technique for multi-type optimization, exploring key parameters like pulse-on time, pulse-off time, peak current, and spark voltage to enhance machining outcomes, including material removal rate (MRR), surface roughness (SR), and gap current (GC). This patent publication reflects Shree Mahavir Education Society’s commitment to fostering industry-relevant innovations across its institutions. Utilizing MINITAB 19 for analysis, the study marks a significant contribution to machining technology with potential for wide-ranging practical applications.

### Words of Wisdom

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अल्बर्ट आइंस्टीन



## SCOE Hosts Guest Lecture on IBM Skill Build Program



### Vision

“Sanghavi College of Engineering strives to educate students to become Industry Ready Engineers having Professional Attitude and Groomed Personality.”

### Mission

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### Words of Wisdom

अज्ञानी होना उतनी शर्म की बात नहीं है जितना कि सीखने की इच्छा ना रखना.



The Computer Engineering Department at Sanghavi College of Engineering conducted an insightful guest lecture on October 21st, 2024, titled "Orientation to IBM Skill Build Program." The session was led by Mr. Shekhar Kadlag from the SRF Foundation, Unitech Business Zone, Nirvana Country, South Gurugram, Haryana, and was attended by enthusiastic students from the Third Year B.E. and Final Year B.E. programs across various departments. Key topics covered in the lecture included the Importance of Continuous Learning, a comprehensive Overview of the IBM Skill Build Program, and an introduction to Career Opportunities and Success Stories linked to IBM's skill-building initiatives. Mr. Kadlag highlighted the value of skill enhancement for career growth in technology, inspiring students to harness the opportunities provided by the program. The participation and engagement from TE and Final Year B.E. students reflected their strong commitment to professional development, making the lecture a vital step in their journey towards a successful career in tech. Students, including Sneha Gumane, Prajwal Gaikwad, Deore Nandini, Divya Pawar, Sakshi Dughad, Surekha Navale, Mayuri Patil, Riya Nikam, Priti Shimpi, Rushikesh Jamdhade, Rushikesh Jadhav, Sakshi Chaudhari, Rasika Khurdal, Yash Khandare, Parth Nikam, and Tejaswini Patil, actively participated in the question-and-answer session. Their enthusiasm and curiosity underscored the commitment of Sanghavi College students to enhance their skills and seize new learning opportunities. The session was a valuable addition to the IBM Skill Build Program orientation, offering deeper insights into the importance of skill development and career growth.

## Site Visit on 'Hydrology and Water Resources Engineering' at Jal Vigyan Kendra MERI.



On October 3, 2024, the Civil Engineering Department of Sanghavi College of Engineering organized an insightful site visit focused on "Hydrology and Water Resources Engineering." The visit was conducted by Mr. V. N. Pawar, Junior Engineer at Jal Vigyan Kendra MERI, who provided valuable insights into the practical aspects of hydrology and water resource management. The visit was attended by students from the Civil Engineering Department, offering them a deep dive into the transition from theoretical concepts to real-world engineering.

Mr. Pawar shared his expertise, discussing key elements such as rainfall measurement, wind direction, and temperature monitoring through both manual and automated methods. He emphasized the importance of technology in tracking climatic changes, particularly focusing on the study of excess rainfall & flooding. Mr. Pawar also encouraged students to develop technical skills to stay ahead in a competitive job market. His practical advice about creating innovative solutions to manage engineering challenges was highly appreciated. The visit enhanced students' understanding of hydrology also it inspired them to explore career opportunities that contribute to society's well-being through effective water resource management. The students left the visit with a greater appreciation for the water cycle and its impact on the environment, motivating them to think creatively about future solutions to the challenges in the field of Hydrology and Water Resources Engineering.

## *Guest Lecture on Enhancing Building Performance with BIM, Drafting, and MEP Services at SCOE*



On October 11, 2024, the Civil Engineering Department at Sanghavi College of Engineering, in collaboration with the Civil Engineering Student Association (CESA), hosted an insightful guest lecture titled "Enhancing Building Performance with BIM, Drafting, and MEP Services." The session, attended by 33 students from the Second, Third, and Final Year Civil Engineering.

The lecture aimed to expand students' understanding of Building Information Modeling (BIM), architectural drafting, and MEP (Mechanical, Electrical, and Plumbing) services, focusing on their role in optimizing building performance. Expert guest speaker Mr. Kartik Jadhav shared industry knowledge, best practices, and highlighted collaborative workflows, data sharing, and energy-efficient building designs. His presentation emphasized how BIM and MEP services contribute to improving construction documentation, building operations, and environmental sustainability. Mr. Kartik Jadhav's interactive approach engaged students and faculty alike, encouraging a robust question-and-answer session and meaningful discussions. The lecture offered a valuable perspective on how integrated design elements are essential in modern construction. Prof. N. S. Shewale, Senior Faculty of Civil Engineering, welcomed and felicitated Mr. Kartik Jadhav at the start, setting a collaborative tone for the event. HOD Prof. Toshnil Boraste and staff took effort to make the program successful.

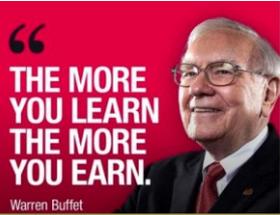
## *Mechanical Engineering Students Gain Insight into Energy Production at Eklahare Thermal Power Station*



On October 24, 2024, 35 students from the Mechanical Engineering Department at Sanghavi College of Engineering, Nashik, visited the Thermal Power Station at Eklahre, Nashik, as part of their industrial visit program. This educational visit was organized to enhance the students' understanding of key subjects such as Turbomachinery, Heat Transfer, and Engineering Thermodynamics.

The visit was coordinated by faculty members Prof. P.S. Dhomse and Prof. R.S. Thakare. Upon their arrival, the students were warmly welcomed by Senior Plant Engineer Mr. Nandikumar More. Mr. More provided an in-depth briefing on the fundamental operations of thermal power plants, focusing on the conversion of coal into electricity through combustion processes. During the visit, the students were given a guided tour of the facility. They observed Coal Handling Process: Understanding the initial stage of power generation., Boiler Units, Turbine Units, Control Room: Gaining insights into the monitoring and management of plant operations. This hands-on exposure allowed students to connect theoretical concepts with practical applications, especially in understanding the role of turbomachinery, heat exchange systems, and thermodynamic cycles in power generation. The visit proved to be an invaluable experience, bridging the gap between classroom learning and real-world engineering practices. It underscored the importance of integrating academic knowledge with industry insights to prepare students for future challenges in the field of mechanical engineering.





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## Mahavir Polytechnic Organizes Expert Lecture on the Indian Constitution



### Vision

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### Mission

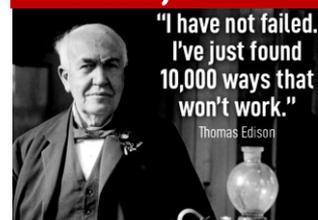
*To provide well-defined system to ensure quality education by strengthening teaching learning processes through innovative practices.*

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### Words of Wisdom



*“I have not failed. I've just found 10,000 ways that won't work.”*  
Thomas Edison

The Computer Engineering Department of Mahavir Polytechnic held an expert lecture on the "Essence of the Indian Constitution" on October 4, 2024. The lecture was delivered by Mrs. Pranjal Atul Nikumbh, a well-known educator with extensive experience in preparing students for competitive exams like UPSC and MPSC. With degrees in Political Science, Public Administration, and Zoology, Mrs. Nikumbh shared valuable insights from her personal experience of appearing for UPSC and MPSC interviews, making the session very relatable for the students. The event was successfully coordinated by faculty members Ms. Snehal Pagare, Mr. Omkar Khute, Mr. Prasad Sonawane, Mr. Ravindra Govind, and Ms. Manisha Kale. The session aimed at helping students better understand the Indian Constitution and its significance in shaping our society. Mrs. Nikumbh used her nine years of experience in guiding exam aspirants to explain complex constitutional topics in a simple, effective way. This initiative reflects Mahavir Polytechnic's commitment to providing students with knowledge that goes beyond technical skills, encouraging them to be informed and responsible citizens of the country.

## Civil Engineering Students Gain Practical Insights During Site Visit to Imperial Tower



On October 17, 2024, the Civil Engineering Department organized an educational site visit to the Imperial Tower construction site at Amrutdham. Led by Mr. Aniket Agrawal and guided by Mr. Raghav D. Vadje, the visit aimed to enhance students' understanding of the Design and reinforcement of steel and reinforced concrete structures. During the visit, students observed the reinforcement details of key structural elements, including slabs, beams, columns, and shear walls. They noted proper rebar spacing and positioning in slabs, adequate lap lengths and anchorage in beams and columns, and the effective use of vertical and horizontal reinforcements in shear walls to improve load-bearing capacity. The students examined the construction and stability of formwork and props, appreciating the robust materials used to ensure a smooth concrete finish. This hands-on experience allowed students to connect their theoretical knowledge with real-world applications, reinforcing essential civil engineering concepts.



## Computer Department Organize Expert Lecture on IoT for Capstone project



The Computer Engineering Department of Polytechnic organized an expert lecture on the Internet of Things (IoT) for Capstone projects, delivered by Mr. Pankaj Sonawane from Autotech, Nashik. The event was conducted under the guidance of HOD Mr. Anup Sonawane, with the support of department staff, including Ms. S. A. Pagare, Mr. P. R. Sonawane, Ms. S. B. Guldagad, and Ms. Y. S. Kolhe. The lecture focused on the practical applications of IoT technology in Capstone projects, offering valuable insights to students. Mr. Pankaj Sonawane shared his expertise on the latest trends and real-world IoT implementations, helping students grasp the significance of integrating IoT solutions into their final year projects. His guidance proved beneficial in aligning student-

-projects with industry requirements, enhancing their readiness for the technological challenges of tomorrow. This initiative is part of Mahavir Polytechnic's ongoing commitment to enhancing technical education and preparing students for industry-relevant challenges.

## Mahavir Polytechnic Signs MoU with Autotech, Nashik for Industrial Automation Training



The Computer Engineering Department of Mahavir Polytechnic has signed a Memorandum of Understanding (MoU) with Autotech, Nashik, an ISO-certified training institute specializing in industrial automation. This collaboration is aimed at offering advanced training and skill development opportunities for students in the field of industrial automation. The MoU was facilitated by Pankaj Sonawane from Autotech, Nashik, in the presence of the Head of the Computer Engineering Department, Mr. Anup Sonawane, and Principal Dr. Sambhaji Sagare. The partnership is designed to align students' learning with industry standards, ensuring they gain practical knowledge and technical expertise in automation technology. As part of this collaboration, students will have access to specialized training programs, preparing them to meet industry challenges and enhancing -

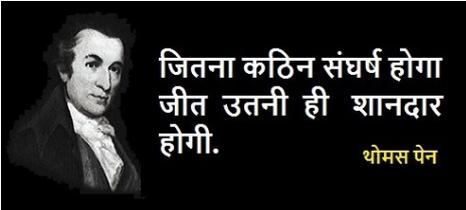
-their employability in the competitive field of automation. Dr. Priyanka Zavar, Director of Shree Mahavir Education Society, and the management have congratulated the Principal, HOD, and students, expressing confidence that this MoU will greatly benefit students, equipping them with essential skills for their future careers.

## 'Reading Inspiration Day' Celebrated with Enthusiasm at Mahavir



Mahavir Polytechnic, celebrated Reading Inspiration Day on October 15, 2024, in honor of Former President Dr. APJ Abdul Kalam Jayanti. The event aimed to inspire students to cultivate a habit of reading and engage with various resources. The celebration was organized by the departments of Mechanical Engineering,

-the Library, with Principal Dr. Sambhaji Sagare playing a key role in highlighting the importance of reading. The event featured the launch of the Online Vachan Katta on the college website, offering access to a wide range of Marathi and English e-books and journals. Dr. Sagare addressed students on the significance of reading and the various methods to develop strong reading habits. Additionally, librarian Shri. Rajendra Adhav conducted an interactive session emphasizing how reading can enhance analytical skills and broaden students' thinking. The Space student union of the Computer Engineering Department also organized activities like book discussions, motivational speeches, and reading sessions. Prof. Anup Sonawane, Head of the Computer Engineering Department, shared insights on Dr. Kalam's contributions to science and leadership. A special book exhibition featuring topics such as personality development, religion, literature, and culture was set up in the library for both students and staff. The event was a collective effort, with contributions from Prof. Pooja Bhalerao, Prof. Anup Sonawane, and librarian Shri. Rajendra Adhav, making the day a great success.



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## Mahavir Institute of Pharmacy Faculty Publishes Research on Brexpiprazole in International Journal



**Dr. Anil G. Jadhav**  
PRINCIPAL



**Prof. Atul Bendale**  
HOD

The faculty of Mahavir Institute of Pharmacy has successfully published an original research article titled "Dissolution Method Development and Validation of Brexpiprazole" in the International Journal of Pharmaceutical Chemistry and Analysis. The research focuses on developing a reliable method for analyzing Brexpiprazole, a drug used in the treatment of mental health conditions, through a stability-indicating RP-HPLC method. The research team included Principal Dr. Anil G. Jadhav, Prof. Atul Bendale, HOD of the Pharmacy Department, Prof. Vasim Pathan and Prof. Namrata Revar. Their work highlights the development and validation of a precise, accurate, and cost-effective RP-HPLC method for determining Brexpiprazole in both bulk and pharmaceutical dosage forms. The study's findings demonstrated that the method is highly efficient, meeting all required standards, including sensitivity, precision, linearity, and robustness. This validated method is especially useful for routine quality control in pharmaceutical industries and has been praised for its consistency and effectiveness. The entire Mahavir Institute of Pharmacy, including management, faculty, and students, congratulates the research team for their contribution to pharmaceutical science. Their work continues to demonstrate the institute's commitment to cutting-edge research and innovation.



**Prof. Vasim Pathan**



**Prof. Namrata Revar**

### Vision

"Mahavir Institute of Pharmacy strives to educate students to become Industry Ready Pharmacists having Professional Attitude and Groomed Personality"

### Mission

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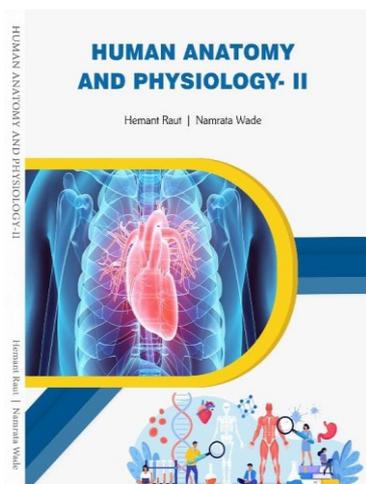
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## Prof. Namrata Wade Publishes Book on Human Anatomy and Physiology



**Prof. Namrata R. Wade**



Mahavir Institute of Pharmacy is proud to announce the publication of Human Anatomy and Physiology-II, authored by Prof. Namrata Rajendra Wade, Assistant Professor at Mahavir Institute of Pharmacy, in collaboration with Prof. Hemant Raut. This insightful book, published by Opus Publication, Nashik, serves as a comprehensive resource for students and professionals in the field of pharmacy. Prof. Namrata Wade, who has published two research papers in international journals, brings her expertise and-

-dedication to this latest work, enhancing educational resources for her students and the wider academic community. The management of Shree Mahavir Education Society, Director of Shree Mahavir Education Society Dr. Priyanka Zawar, Principal Dr. Anil Jadhav, along with faculty and students, extended their heartfelt congratulations to Prof. Namrata Wade on this remarkable achievement.

### Words of Wisdom

EDUCATION IS THE MOST POWERFUL WEAPON WHICH YOU CAN USE TO CHANGE THE WORLD.

- NELSON MANDELA

## *MIP Faculty Achieves Patent for Innovative Device Design*

### *Revolutionizing Drug Estimation: Portable RP-HPLC Device Design Secures Patent Registration in Pharmaceutical Analysis.*



**Prof. Bhagyashree S Mundhe**  
(MIP- B.Pharmacy)

Mahavir Institute of Pharmacy is thrilled to announce that Prof. Bhagyashree S. Mundhe, Assistant Professor, has secured a patent design registration with the Intellectual Property Office, Government of India. The design, registered under Patent Design No. 430531-001 on September 14, 2024, is for a "Portable RP-HPLC Device for Estimation of Drugs in Rat Plasma Protein." This innovative device design was achieved in collaboration with an esteemed research team including Dr. T. Vinciya, Tani Carmel Raj T. G., Mr. Shivshankar Sudhakar Kukade, Ms. Krutika A. Poshiya, Dr. Viswanadh Kunam, Mr. Sarwar Imam, Mrs. Anuradha Kumari, Dr. Muzaffar Ahmed Farooqui, and Dr. Touseef Begum. The Portable RP-HPLC Device offers a groundbreaking approach to pharmaceutical analysis, providing a compact and efficient solution for drug estimation, especially valuable in preclinical research. This achievement exemplifies the institute's-

-dedication to advancing innovative technology and making impactful contributions to the scientific community. The management of Shree Mahavir Education Society, Director of Society Dr. Priyanka Zawar and Principal Dr. Anil Jadhav, along with faculty and students, extend their warm congratulations to Prof. Bhagyashree Mundhe and the entire team on this remarkable milestone.

## *'Avishkar 2024' Sparks Innovation at MIP:*

### *Inter-College Research Competition Promotes Excellence in Pharmacy and Life Sciences*



Inter-College Research Competition Sparks Innovation at Mahavir On October 18, 2024, Mahavir Institute of Pharmacy, Nashik, hosted the Avishkar 2024 Inter-College Research Competition, an event that highlighted the research talent and innovation of students across multiple fields. With 39 participants from various semesters, the competition provided an impactful platform for students to present their original research in six diverse categories, promoting scientific inquiry, problem-solving, and creativity in pharmacy and life sciences.

This year's competition featured the following categories, showcasing a wide range of academic disciplines: Humanities, Languages, Fine Arts, Commerce, Management, Law, Pure Sciences; Agriculture and Animal Husbandry; Engineering & Technology; and Medicine and Pharmacy. Each category was evaluated on originality, methodology, relevance, and the research's potential impact on the field. The event began with a warm welcome by Dr. Anil G. Jadhav, Principal of Mahavir Institute of Pharmacy, followed by an inspiring inaugural speech by Dr. Atul R. Bendale, who emphasized the importance of research in advancing the pharmaceutical field. Each participant presented their findings to a distinguished panel of judges from various institutions, who then engaged in a Q&A session to evaluate the clarity, novelty, and application of the research work. Avishkar 2024 allowed students to demonstrate their research skills and learn from their peers, faculty, and industry experts, celebrating the multi-faceted nature of pharmacy research, from drug development to innovative technologies. The event fostered a spirit of healthy competition while encouraging collaboration and networking among students and faculty.