



Volume  
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# Bits & Bytes



Computer Engineering Department

## *Polytechnic Students Developed Artificial Intelligence Based Advanced Criminal Face Detection System*



### Vision

Computer Department strives to educate students to become Industry Ready Engineers having Professional attitude and groomed Personality.

### Mission

- 1) To provide well defined system to ensure quality education by Strengthening teaching learning processes through innovative practices..
- 2) To provide a platform where students are exposed to the Industry, up Bridged with the industry standards and requirements.
- 3) To train students by teaching them leadership and teamwork skills.
- 4) To groom students enriching their personality and social values.

*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.*

*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.*

*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 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.*



## Bits & Bytes

### *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.



# Mahavir Polytechnic, Nashik

Computer Engineering Department

Shree Mahavir  
Education Society's



Bits & Bytes

## Maha-Fest 2024' boosted research attitude of students Creative and innovative students honored in the competition



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 Zavar, 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.

## १०० % मतदानासाठी 'महावीर' महाविद्यालयाची जनजागृती

पोस्टरच्या माध्यमातून चौक, बाजारपेठा आणि  
महाविद्यालयांत विद्यार्थ्यांचे प्रबोधन

मतदान हे एक महत्त्वाचे नागरी कर्तव्य असून देशाच्या  
भविष्यावर लक्षणीय परिणाम करू शकते, मतदानामुळे  
राजकारण्यांना त्यांच्या कृतींसाठी जबाबदार राहण्यास  
आणि चुकत असेल तर अंकुश ठेवण्यास मदत होते,



### LOKMAT TIMES

#### Students conduct poster campaign for voter awareness

Their aim is to achieve  
100 percent voter  
turnout this time

LOKMAT NEWS NETWORK  
Mumbai, Maharashtra

An innovative poster campaign was recently undertaken by the Computer Engineering Department of Mahavir Polytechnic run by Shree Mahavir Education Society to increase voter awareness so that 100 percent voter turnout can be achieved in the upcoming Lok Sabha elections. Students of the college took to the streets under the guidance of the professors, to highlight the importance of voting.

Students put up posters aimed at increasing voter awareness at various locations in the city including Panchavati, Mhasrul,



CBS, Ashok Stambh, along with various colleges in the city. They also carried placards with catchy slogans to draw the attention of citizens. Head of the Computer Department, Anup Sonawane, expressed his thoughts on the occasion, said, "Our students understand the important role of youth in shaping the future of our nation, so through this campaign, they are working towards awakening others in a creative way. Our students are working as responsible citizens." Student

representative Mayur Kumbhar expressed his thoughts saying, "Voting gives citizens an opportunity to participate in the democratic process. Everyone gets an opportunity to contribute to this democracy by electing people's representatives, so it is imperative that everyone participates in this crucial task." This poster campaign received good response from the students. Mayur Kumbhar, Krushna Patil, Vishal Ahire, Kamal Kumbhar, Leena Patil, Priyanshu Tambar, Krushna Patil, Aswari Bhagat, and others participated in the camp. Professors Gauri Sonawane, Sayali Desai, Prasad Sonawane, Swamini Guladgaod and others also joined the students to create public awareness. Chairman of Shree Mahavir Education Society, Harish Sanghavi; Managing Trustee Rahul Sanghavi; Director Dr. Priyanka Zavar; Principal Dr. Sambhaji Sagar, along with all teachers and non-teaching staff appreciated the students for the success of the campaign.

Nashik First  
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वाढलेल्या मतदानाच्या टक्केवारीमुळे जन्मताच कौल अधिक  
सखोल होतो त्यामुळे याविषयी जनजागृती करणे अत्यंत  
महत्त्वाचे आहे, यासाठी प्रत्येकानेच प्रयत्न करणे आवश्यक आहे  
, विद्यार्थी म्हणून महाविद्यालयीन विद्यार्थ्यांचा सहभागही  
तितकाच महत्त्वाचा असतो. यासाठी मतदार जागृती  
अभियानाच्या माध्यमातून लोकसभा निवडणुकीत 100%  
मतदान गाठण्या जागृती घडविण्याच्या हेतूने महावीर  
पॉलिटेक्निकच्या संगणक अभियंत्रिकी विभागाच्यावतीने  
नुकतीच नाविन्यपूर्ण पोस्टर मोहीम हाती घेण्यात आली होती



## Bits & Bytes

विद्यार्थी प्रतिनिधी मयूर कुंडारिया याने आपले विचार मांडले, तो म्हणाला कि, "मतदानामुळे नागरिकांना एक आवाज आणि लोकशाही प्रक्रियेत सहभागी होण्याची संधी मिळते. प्रत्येकाला या लोकशाहीत योगदान देण्याची आणि सरकारमध्ये लोकप्रतिनिधी निवडण्याची संधी मिळते, या पवित्र कामात सर्वांचा सहभाग असलाच पाहिजे " असे तो

यावेळी म्हणालानिवडणूक प्रक्रियेत हातभार लावण्याची संधी मिळाल्याने विद्यार्थी यावेळी खूपच उत्साही होते.

सदर पोस्टर मोहिमेला नाशिकच्या रहिवाशांकडून मोठ्या प्रमाणावर प्रतिसाद आणि प्रशंसा प्राप्त झाली, विद्यार्थ्यांनी इतरांनाही सदर जनजागृती आंदोलनात सामील होण्याचे आवाहन केले. सदर मोहिमेत मयूर कुंडारिया, कृष्णाली पाटील, विशाल अहिरे, कोमल कुशारे, लीना पाटील, प्रियांशु तांबट, कृष्णा पटेल,



आसावरी भगत, स्नेहल कातड, प्रसाद गवळी, हर्षदा तांबे, वरुण पिंगळे, नंदिनी महाजन, पारस सानप, अंकिता महाजनद्र, ओम भंदुरे, साहिल सांगले ह्या विद्यार्थ्यांनी सहभाग घेतला तर महाविद्यालयाच्या संगणक शाखेतील विद्यार्थ्यांची 'स्पेस' संघटनेने सहभाग घेतला. प्राध्यापक गौरी सोनवणे, सायली देसाई, प्रसाद सोनवणे, स्वामिनी गुलदगड आदी प्राध्यापकवर्गाने विद्यार्थ्यांबरोबर जनजागृतीचे नेतृत्व केले. श्री महावीर एज्युकेशन सोसायटीचे अध्यक्ष श्री. हरीश संघवी, व्यवस्थापकीय विश्वस्त श्री राहुल संघवी, सोसायटीच्या संचालिका डॉ. प्रियंका झवर, प्राचार्य डॉ. संभाजी सगरे तसेच महाविद्यालयाचे शिक्षक आणि शिक्षकेतर कर्मचारीवर्गाने विद्यार्थ्यांचे उपक्रम यशस्वितेबद्दल कौतुक केले आहे.

## नवराष्ट्र

निवडणूक • पोस्टरच्या माध्यमातून चोक, बाजारपेठा आणि महाविद्यालयात विद्यार्थ्यांचे प्रबोधन

### १००% मतदानासाठी 'महावीर'ची जनजागृती

■ मयूरकुंड, (वा.) येथील महावीर पॉलिटेक्निकच्या संगणक अभियंत्रणांठी विभागण्यात खरीदेने नुकतीच 'निवडणूकी' पोस्टर मोहिमेला सती येण्यात आली होती. महाविद्यालयाच्या विद्यार्थ्यांनी प्राध्यापकांच्या नेतृत्वाखाली रस्त्यावर उतरून मतदानाचे महत्त्व अधोरेखित केले. पंचवटी, मयूरकुंड, सोबीरप, अशोक रतंभ, शहरातील बाजारपेठा आणि महाविद्यालयात यादिकांनी विद्यार्थ्यांनी सारः पोस्टर लावले. त्याचबरोबर अनेककडे येवकालाच लवकर कापूनत आलेले पोस्टर हातात घेऊन नागरिकांच्या कर्तव्याकडे लक्ष वेधले.



जागृत करणाऱ्याचे काम करा आहे. विद्यार्थ्यांनी प्रतिनिधी मयूर कुंडारिया भरणाला की, मतदानामुळे नागरिकांना एक आवाज आणि लोकशाही प्रक्रियेत सहभागी होण्याची संधी मिळते. प्रत्येकाला या लोकशाहीत योगदान देण्याची आणि सरकारमध्ये लोकप्रतिनिधी निवडण्याची संधी मिळते. या पवित्र कामात सर्वांचा सहभाग असलाच पाहिजे.

इतरांनाही सदर जनजागृती आंदोलनात सामील होण्याचे आवाहन केले. या मोहिमेत मयूर कुंडारिया, कृष्णाली पाटील, विशाल अहिरे, कोमल कुशारे, लीना पाटील, प्रियांशु तांबट, कृष्णा पटेल, आसावरी भगत, स्नेहल कातड, प्रसाद गवळी, हर्षदा तांबे, वरुण पिंगळे, नंदिनी महाजन, पारस सानप, अंकिता महाजनद्र, ओम भंदुरे, साहिल सांगले या विद्यार्थ्यांनी सहभाग घेतला.

## बौद्धिकसंपदा अधिकारांमुळेच नवनिर्मितीला प्रोत्साहन :

### डॉ. महेंद्र जगताप

बौद्धिकसंपदा अधिकारांमुळेच नवनिर्मितीला प्रोत्साहन मिळाले असून विद्यार्थी, प्राध्यापक अथवा संशोधकाला नवीन निर्मितीचे कायदेशीर संरक्षण मिळाल्यामुळे नवीनतेसाठी प्रोत्साहन कार्य वाढले आहे. या अधिकारांमुळे निर्मितीतून संशोधकाला वैयक्तिक अर्थार्जन तसेच देशाच्या आर्थिक वाढीला चालना मिळाली आहे. नवीन रोजगार आणि उद्योग निर्माण करणे, जीवनाची गुणवत्ता वाढविणे, सृजनशीलता वाढविणे आणि निर्मात्यांच्या अधिकारांचे रक्षण करणे यामुळे सहज शक्य झाले आहे असे प्रतिपादन बौद्धिकसंपदा अधिकारांविषयीचे तज्ञ डॉ. महेंद्र जगताप यांनी





## Bits & Bytes

संघवी कॉलेज ऑफ इंजिनिअरिंग आयोजित "बौद्धिक संपदा अधिकार विषयी जागरुकता ' या कार्यक्रमात केले. यावेळी प्रमुख वक्ते म्हणून बोलत होते.

सदर एकदिवसीय कार्यक्रम शिक्षक विकास उपक्रमांतर्गत आयोजित करण्यात आला होता, यात श्री महावीर एज्युकेशन सोसायटीच्या महावीर इन्स्टिट्यूट ऑफ फार्मसी, महावीर पॉलीटेक्निक आणि संघवी कॉलेज ऑफ इंजिनिअरिंगच्या सर्व

## पोरांचा कल्ला.. 'महावीर'मध्ये डेज सेलिब्रेशनची

### धूम

महावीर पॉलीटेक्निक, संघवी कॉलेज ऑफ इंजिनिअरिंग आणि महावीर इन्स्टिट्यूट ऑफ फार्मसीच्या विद्यार्थ्यांचा उत्साह शिगेला, आज महाविद्यालयात पारंपारिक दिवस, ग्रुप डे, सारीडे सध्या 'महावीर'च्या तीनही महाविद्यालयांमध्ये डेज सेलिब्रेशनची धूम सुरू असून आपण आणि आपला ग्रुप कसा वेगळा दिसेल, यासाठी 'महावीरन्स'ची धावपळ बघण्यासारखी आहे. महावीर एज्युकेशन सोसायटीच्या महावीर पॉलीटेक्निक, संघवी कॉलेज ऑफ इंजिनिअरिंग आणि



महावीर इन्स्टिट्यूट ऑफ डी.फार्मसी आणि बी. फार्मसीच्या विद्यार्थ्यांचा उत्साह शिगेला पोहचला असून महाविद्यालयात विविध डेज आणि सांस्कृतिक कार्यक्रमांची रेलचेल सुरू आहे. गायन, नृत्य, नाटक, रीळ मेकिंग, क्रिकेट, टगऑफ वॉर, रांगोळी, कॅरम, चेस, ग्रुपडे, ट्रिक्स डे, अंताक्षरी, ट्रेडिशनल डे, ट्रेजर हंट, फनफेअर, मास्टरशेफ, चॉकलेट डे, रोज डे, रेट्रोडे, बॉलिवूड डे, फॅशन शो, होलोवीन डे, आर्ट एक्सिबिशन अशा विविध डेज आणि स्पर्धांच्या आयोजनातून विद्यार्थ्यांना आपले कलागुण दाखविण्यासाठी वाव मिळत आहे.



आज पारंपारिक दिवस ग्रुपडे उत्साहात साजरा करण्यात आला. विविधरंगी पोशाखांमध्ये आलेल्या विद्यार्थ्यांमुळे 'महावीर'च्या कॅंपसचं वातावरण एकदम सांस्कृतिक झालं होतं. पारंपरिक व्यक्तिरेखांसह ट्रू पीस, थ्रीपीस सूट- बूट, अशा विविध रंगीबेरंगी नऊवारी साड्या आणि पोशाखांमध्ये युवक-युवतींनी कॉलेजला हजेरी लावली. विद्यार्थ्यांच्या उत्स्फूर्त प्रतिसादामुळे डेज दणक्यात करण्यात येत आहे.



## Mahavir' Students Achieve Success in Campus Placements Sudarshan Deshmukh Joins NAMCO Hospital,



*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 Computer Enginnering 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.*