



Advancements in Computer Engineering and their Impact on Society

My Article



Amruta Gagare - FYIF

Computer engineering has become an increasingly important field in today's society, as technology continues to advance at an unprecedented pace. The developments in computer engineering have made it possible to transform the way we live, work, and communicate. In this article, we will explore some of the recent advancements in computer engineering and their potential impact on society.

AI is an exciting field in computer engineering that involves developing machines to perform tasks that typically require human intelligence. Recent advancements in AI have led to the development of intelligent virtual assistants, self-driving cars, and robots capable of performing complex tasks like surgery.



The Internet of Things (IoT) is a revolutionary development in computer engineering that has the potential to transform the way we live and work. By interconnecting devices and sensors, IoT can create a seamless network of communication, enabling automated adjustments to our environment based on our preferences. Imagine a world where your home knows exactly how you like the temperature and lighting, or a factory that can detect and fix production issues in real-time. The possibilities are endless with IoT, and it's just the beginning of a new era in technology.

Blockchain: a decentralized ledger that securely stores and tracks data without intermediaries. It has the potential to transform industries like finance, healthcare, and logistics by enabling secure and transparent transactions.

Quantum computing uses qubits to represent multiple states at the same time, enabling it to perform complex calculations faster than traditional computers. This could have significant implications for fields like cryptography and drug discovery.

In conclusion, computer engineering is a field that is constantly evolving, with new developments and breakthroughs emerging at a rapid pace. These developments have the potential to transform the way we live and work in profound ways. As the world becomes increasingly digital, it is important for computer engineers to continue pushing the boundaries of what is possible and find new ways to harness the power of technology for the greater good.

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.

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Challenges of Mechanical Engineers

With the advent of computers and automation.

Mechanical engineering has been an essential field for centuries, and its importance has only increased in the 21st century, particularly with the advent of computers and automation. However, with the rise of new technologies and the increasing complexity of the modern world, mechanical engineers face a number of challenges. We will explore some of the challenges that mechanical engineers face in this century, particularly in the era of computers.

Keeping Up with Rapid Technological Change - The first and perhaps most significant challenge that mechanical engineers face is keeping up with the rapid pace of technological change. The development of new technologies such as robotics, artificial intelligence, and automation has revolutionized the field of mechanical engineering, and engineers need to be able to adapt to these changes quickly.

Integrating Computer Science and Mechanical Engineering - Another challenge that mechanical engineers face is integrating computer science and mechanical engineering. In the past, mechanical engineering was largely a standalone discipline, but now, with the advent of computers and automation, computer science has become increasingly important. Mechanical engineers need to have a strong understanding of both disciplines in order to develop and implement effective solutions.

Sustainability and Environmental Concerns - As the world becomes more environmentally conscious, mechanical engineers face the challenge of designing sustainable products and systems. This requires an understanding of energy efficiency, material science, and environmental impact, as well as the ability to incorporate these considerations into the design process.



Swapnil Shinde - SE ME

Meeting Industry Demands - With the rise of globalization, Mechanical engineers are expected to design products that are efficient, cost-effective, and scalable for global markets. This requires a deep understanding of the unique challenges and opportunities presented by different markets, as well as the ability to innovate and adapt quickly to changing market demands. The challenges faced by mechanical engineers in the 21st century are numerous and complex. However, with the right training, knowledge, and skillset, these challenges can be overcome. Mechanical engineers must be willing to adapt and innovate, combining their traditional mechanical engineering skills with an understanding of computer science, sustainability to contribute to the betterment of society.



Raising the Bar of Technical Excellence:

'Maha-Veer 2023' Ignites Innovation and Ingenuity Among Students

Mahavir Polytechnic recently organized 'Maha-Veer 2023,' a state-level technical event featuring two competitions: Paper Presentation and Poster Mania. The topics for the paper presentation competition were 'Emerging Trends in Engineering' and 'Make in India,' while the topics for the poster mania competition were 'Global Warming,' 'Emerging Trends in Engineering,' and 'Make in India.'

The event was a huge success, with many students from different departments participating and showcasing their talents. The following students were awarded first prize in the paper presentation competition: Shreya Balasaheb Khairnar and Chaitali Anil Aher from the Electrical Engineering Department of Mahavir, Bapte Vedant Vijay and Nikam Kishori Rajendra from the Mechanical Engineering Department of Mahavir, and Atharva Dattatray Gavhane, Ayush Vijay Kharat, and Atharva Madhukar Gaikawad from the CE Department of KK Wagh Polytechnic. Aaditya Manohar Gaikawad, Aaditya Sanjay Bhandari, and Sahil Santosh Sonawane from the Computer Department of KKW also received first prize. Second prize in the paper presentation competition was awarded to Virendra Dinesh Kharkar and Rohan Yogesh Nanak from the EE Department of Mahavir Polytechnic, Wagh Vaibhav Gorakh and Nijraj Mahindragir Gosavi from the Mechanical Engineering Department, Chetan Kadu Kadam from the Civil Engineering Department, and Soham Pravin Deshmukh and Suraj Uttam Shakpal from the Computer Engineering Department. In poster mania Harshali Sitaram Suryawanshi of Computer Engg. Dept got first prize and Deepak Kamlakar Bagul of Electrical Engg. got second prize. At the event, prizes were distributed by Principal Sambhaji Sagare and The Heads of Department, including Mr. Sanjay Bhamre, Mr. Anup Sonawane, Miss. Jaymala Pradhan, and Mr. Satish Deore. All participants and winners received certificates from the organizing committee of Mahavir Polytechnic. Overall, the event was a great success, and the students displayed a high level of knowledge and expertise in their respective fields.



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"Happiness is not something readymade. It comes from your own actions"



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Shree Mahavir Education Society

VOLUME NO.01 | ISSUE NO.03 | MAR23

E -MAGAZINE OF SHREE MAHAVIR EDUCATION SOCIETY, NASHIK



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Words of Wisdom

Life is like riding a bicycle. To keep your balance, you must keep moving.



—Albert Einstein

NetLeap IT Training & Solutions visit:

Empowering students with practical knowledge of data centers and cyber security.



The Department of Computer Engineering and the Department of Information Technology recently organized an exceptional industrial visit to NetLeap IT Training & Solutions, Nashik. During the visit, the students had the privilege of being guided by the highly experienced Mrs. Mrunal Dahale, Director of NetLeap, who provided invaluable insights into data center implementation and workstations, as well as cyber security.

Mrs. Dahale's profound knowledge and expertise in the field of cyber security were evident as she elaborated on the significance of cyber security and the various types of cyber threats faced by organizations today. Her practical approach towards the subject and the detailed explanation of various data center components, such as routers, switches, firewalls, storage systems, servers, and application delivery controllers, helped the students gain a comprehensive understanding of the intricacies involved in data center management. The visit to NetLeap IT Training & Solutions was a remarkable experience for our students, as they were able to gain practical knowledge from a renowned expert in the field. The information shared by Mrs. Dahale will undoubtedly prove to be incredibly useful for our students, equipping them with the essential skills and knowledge required to excel in the field of Computer Engineering and Information Technology. Overall, the industrial visit was a resounding success, and we are immensely grateful to Mrs. Dahale and the team at NetLeap IT Training & Solutions for their hospitality and insightful guidance.

'Mahavir' Launches New Smart Classroom:

Equipped with State-of-the-Art Technology, Highspeed Internet & Wi-Fi



Mahavir Polytechnic has recently established a new smart classroom for its students, which was inaugurated by Prof. Sambhaji Sagare, Principal of Mahavir Polytechnic, and Prof. Navnath Palde, Principal of SCOE. The new smart classroom is equipped with state-of-the-art technology and provides a contemporary learning environment for students. The classroom features a large screen capable of displaying high-quality videos and images, as well as a sound system that delivers crystal-clear audio, making it easy for students to hear lectures and discussions. This feature enables teachers to explain complex concepts and diagrams with ease. Furthermore, the smart classroom is

equipped with a high-speed internet and Wi-Fi connection that allows students to access online resources and research materials. By providing modern learning facilities to students, Mahavir Polytechnic aims to enhance the learning experience, to increase student's engagement and improve access of information.

Mahavir Welcomes Successful Alumnus RTO for Career Seminar



Mahavir Polytechnic recently hosted an informative seminar on Road Safety, featuring alumnus Mr. Sachin Jadhav, an RTO Inspector from Nandurbar. During the seminar, Mr. Jadhav highlighted the alarming rate of road accidents in India and around the world, with approximately 12 lakh people losing their lives every year, 10% of whom are from India. He emphasized the importance of obeying traffic rules and regulations and shared information on the age limit and eligibility requirements for obtaining a driver's license, as well as the importance of wearing a helmet. In his concluding remarks, Mr. Jadhav shared his personal experiences and qualifications required to become an RTO, emphasizing the significance of discipline and hard work. He also provided valuable tips on preparing for the physical and theoretical exams, inspiring students to persevere and follow their dreams of becoming an RTO. Overall, the seminar was an informative and inspiring event, highlighting the value of staying connected to one's alma mater.

Civil Engineering Students Excel in 'MAP-FES' State level Drawing and Drafting Competition



The second-year Civil Engineering students, Om Vasani and Aniket Chandrashekhar, achieved success by participating in the state-level event 'MAP-FES'. The event, organized by Matoshree Polytechnic, included a Drawing and Drafting Competition that witnessed tough competition from participants across the state. However, the exceptional skills and knowledge showcased by the students from Mahavir College helped them secure top positions in the competition. Specifically, Om Vasani secured the 4th rank and Aniket Chandrashekhar secured the 5th rank in the Drawing and Drafting competition.

Visit to Sahyadri Farm



An industrial visit to Sahyadri Farm Nashik was organized by Department of Computer and Information Technology. The visit showcased the benefits of industrial automation and robotics, including how they improve efficiency, quality, and performance while replacing manual labor.

Community Service with Heart

College Students Bring Joy to Anjineri Orphanage



Students and staff members of Electrical Engg. Dept. visited Aadharthirsh Ashram, Anjineri orphanage home as a part of their community service activity. They spent a day with the children and engaged in various fun activities such as dance and songs. They served lunch and provided gifts such as stationary items and biscuits and chocolates to the children and volunteers. The visit provided the students with a valuable opportunity to learn about empathy and compassion towards those who are less fortunate. Overall, it was a fulfilling and enriching experience for both the students and staff members, who are looking forward to more such opportunities in the future to contribute towards the welfare of the community.

For those who dare to dream, there is a whole world to win.

- Dhirubhai Ambani



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Shree Mahavir Education Society

VOLUME NO.01 | ISSUE NO.03 | MAR23

E -MAGAZINE OF SHREE MAHAVIR EDUCATION SOCIETY, NASHIK



Vision

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

Mission

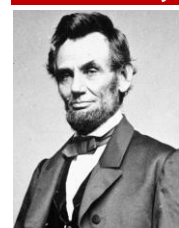
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Words of Wisdom



“It's not the years in your life that count. It's the life in your years”



Unleashing the World of Automobile Maintenance

A Visit to MSRTC Divisional Workshop for First Year Students



The Mechanical Engineering department of Sanghavi College of Engineering organized a visit to the MSRTC Divisional Workshop in Nashik on 8th March for 82 students. The visit aimed to help the students understand the organization structure and sections, identify and observe automobile components used in MSRTC buses, and learn about maintenance practices and tools.

The workshop is divided into sections such as engine, battery, brakes, tyres, paintings, welding, and machining to maintain quality and repair work. The students were divided into two groups for social distancing and better learning experience. Instructors explained different parts and systems while students observed repairing work in each section.

Mr. Padmane, Deputy Mechanical Engineer of MSRTC Divisional Workshop, granted permission for the visit, and instructors shared their knowledge. The visit proved to be informative and valuable for the students of first year engineering.

Expert Lecture on Research Paper Presentation

PhD candidate from IIT Mumbai shared valuable tips for effective paper presentation

Sanghavi College of Engineering's Electrical Engineering department hosted an online expert lecture on research paper presentation by Mr. O. N. Buwa, a PhD candidate from IIT Bombay. The lecture aimed to educate SE, TE, and BE students on the process of paper presentation and publishing research papers in reputed journals. The lecture covered various aspects, including the importance of paper presentation, steps to be

Online Expert Lecture



followed while writing a research paper, and the process for publishing it in journals like IEEE, SCOPUS, ELSEVIER, and others.

The lecture had 106 attendees who learned about different publishing platforms, encouraged to pursue their interests for their final year projects and paper presentations. The expert lecture provided valuable knowledge and tools to conduct research in an effective and professional manner, and the department is committed to organizing more informative lectures in the future.

‘Advancing Civil Engineering Projects with BIM Software’

A Guest Lecture by Prof. Shalaka Kailas Hire on the Benefits of BIM for Collaboration, Error Reduction, and Cost Predictability



Civil Engineering Department organized a guest lecture on Building Information Modeling (BIM) software for civil engineers recently. The lecture was delivered by Prof. Shalaka Kailas Hire from the Symbiosis Institute of Technology in Pune, Maharashtra. The purpose of the lecture was to educate civil engineering students about the benefits of BIM for civil engineering projects.

During the lecture, Prof. Hire highlighted the advantages of BIM for civil engineering projects, including the ability to investigate multiple scenarios, facilitate collaboration among project teams, reduce errors, and increase cost predictability. BIM is an intelligent, 3D model-based process that allows civil engineers to create and manage design assets for improved collaboration, shared data, and project delivery. Prof. Hire emphasized that BIM is an essential tool for civil engineers to deliver high-quality projects on time and on budget.

The lecture was well-received by the students and provided valuable insights into the benefits of using BIM software in civil engineering projects. The students gained a better understanding of how BIM can help them to work more efficiently and effectively on their projects, which will ultimately lead to better project outcomes. Overall, the guest lecture on BIM software for civil engineers was a success, and the Civil Engineering Department will continue to organize such events to keep students informed about new and emerging technologies in their field.

Guest lecture on ‘Future Proofing your Carrier’

Insights on Career Development from Miss Saloni Bagwani



Guest lecture on “Future Proofing your Carrier” has been successfully organized and conducted by Computer Engineering department in Sanghavi College of engineering. About 54 students from various departments participated in the talk. The talk was given by Miss. Saloni Bagwani on the topic “Future Proofing your Carrier”.

She has International Exposure as she validates Global Ambassadorship for Rotary. She comes from an Engineering background and has a very logical bent of mind which gives her an edge for understanding the technicalities of the organization apart from the Training and Human Resource Development. She has sound Local and Global connections because of her active participation at various platforms like Rotary International, UNESCO, Rotaract, JCI, AIESIC, and many more which gives her a deep understanding of the behavior of the people at almost all levels and to ensure how to get her work done without creating any anonymity.

The main aim was to develop confidence in students and improve their communication skills. This session was taken for students to make them understand the importance of Public Speaking and develop stage daring as well. The session included interview skills and techniques while giving an interview. Some important tips were given on “Resume Building” and common questions asked during an interview. The session was very interactive and the students were requesting for more such sessions.

"I think it is possible for ordinary people to choose to be extraordinary"

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Learning from Nature: Exploring the Pharmacognostic Importance of Medicinal Plants in an Ayurvedic Medicinal Garden

The field visit to an Ayurvedic medicinal garden in Talegaon, Dindori was organized recently for Pharmacy students as a part of their academic curriculum. The trained guide presented information on the morphology and pharmacognostic importance of various medicinal plants, cultivation techniques, irrigation, fertilization, and plant protection methods. The objectives set for the field visit were to teach the students proper methods of managing medicinal plants, identify plants suitable for treating pathological diseases, study the Ayurvedic approach to cultivation, and collect medicinal plants for studying their pharmacognostic importance. Overall, the visit provided a valuable platform for the students to learn practical knowledge and gain a deeper understanding of the importance of medicinal plants in the field of Ayurveda.

Students gain practical insights on healthcare: Talegaon Primary Health Care visit.



Mahavir Institute of Pharmacy (D.Pharm) organized a field visit to the Primary Health Care Centre in Talegaon, Dindori for first year D-Pharm students. The aim of the visit was to gain insight into the primary health or medical facilities provided by the government and the functioning of the institution. The visit proved to be interesting, and the students had an in-depth discussion on how the system works. The students found the visit helpful in preparing them to face real-life challenges, and the institution is committed to organizing such visits for the development of the students.

Staff Achivement: Patent Granted



Dr. Anil Jadhav
Principal



Dr. Atul Bendale
HOD



Dr. Vasim Pathan

Dr. Anil Jadhav, the Principal of Mahavir Institute of Pharmacy, along with Dr. Atul R. Bendale, the HOD, and Dr. Vasim T. Pathan, have been granted a patent for an electronic water bath designed for synthetic purposes. The patent has been appreciated at Pharma Anveshan 2023, which is an event organized by the Pharmacy Council of India. The event was held on March 6th, 2023, which coincided with National Education Day.

Words of Wisdom



"However difficult life may seem, there is always something you can do and succeed at"



Study Abroad after Pharmacy: Career Guidance Seminar for Final Year Students at Mahavir Institute of Pharmacy

On 21 March, Mahavir Institute of Pharmacy organized a career guidance seminar titled "Study Abroad after Pharmacy" for their final year students. The seminar was conducted by Mr. Amit Gore, the founder of Akshay Study Abroad Consultants. During the seminar, Mr. Gore provided valuable insights on the opportunities available for Maharashtra State students after completing their B. Pharmacy degree in different countries, and the qualifying requirements for the same. He emphasized the importance of planning career moves and preparing well in advance, especially for those who wish to pursue their studies abroad. Mr. Gore also highlighted the vital steps involved in the study abroad process, and the current trends in this domain. He provided guidance on the scope of studying in different countries and explained how the admission process works in foreign destinations. Overall, the seminar was beneficial for the final year students of Mahavir Institute of Pharmacy as it provided them with valuable information and insights on pursuing their higher education abroad.

From the Classroom to the World Stage: Mahavir Students' Research Achievements Shine through National & International Journal Publications

Rutuja B. Nathe Final Year B.Pharm.



Name of Journal
International Journal of Novel
Research and Development
(IJNRD)
Title of Article: Aegle marmelos
(antiulcer activity)
Guide: Prof. Unmesh Bhamare

Shubhangi R. Gadakh Final Year B.Pharm.



Name of Journal
International Journal of Research
Publication and Review (IJRPR)
Title of Article: An overview:
Bakuchi seeds use as Alpecia
Areata
Guide: Prof. Unmesh Bhamare

**Ritika D. Gosavi
Final Year B.Pharm.**



Name of Journal
International Journal of
Novel Research and
Development (IJNRD)
Title of Article:
Drug Regulatory affairs
Guide: Prof. Unmesh
Bhamare

Sakshi L. Sonawane Final Year B.Pharm.



Name of Journal
International Journal of Research
Publication and Review (IJRPR)
Title of Article: A review on
gastroretentive drug delivery
system
Guide: Prof. Unmesh sBhamare

Dhanshree V. Pawar Final Year B.Pharm.



Name of Journal
International Journal of
Research Publication and
Review (IJRPR)
Title of Article: A review on
Bhimsen Camphor
Guide: Prof. Unmesh Bhamare