

YANTRIKI



Department of Mechanical Engineering Magazine | 2021-22



VISION – MISSION

Department Vision:

Emerge as an excellent centre for Mechanical Engineering education.

Department Mission:

DM1: To ensure quality teaching-learning process and infrastructure for developing competent professionals.

DM2: To impart the skills of teamwork, leadership, communication and inculcate ethical values.

DM3: To establish linkages with industry so as to understand the contemporary practices in the field of Mechanical Engineering.

Program Educational Objectives (PEOs):

PEO1: Demonstrate excellence in profession or pursue higher education.

PEO2: Develop skills to excel in innovation through out-of-the-box thinking to create advanced Mechanical Systems.

PEO3: Apply skills to enhance participation in professional and societal activities.

Program Specific Outcomes (PSOs):

PSO1: Ability to design, analyze, and realize physical systems, components or processes by applying principles of thermal, design and production engineering.

PSO2: Able to accept new challenges through their experiences and learning from industry institute interaction.

FROM THE PRINCIPAL'S DESK

DR. S. L. BADJATE

Principal
S.B.Jain Institute of Technology,
Management and Research
principal@sbjit.edu.in



Dear Students,

Technical as well as management Education is the backbone of every nation and is the stepping stone for a country to move into the niche of a developed nation. At S.B Jain Institute of Technology, Management & Research (SBJITMR) Nagpur, We have a tradition of nurturing value based education & developing capabilities to challenge the state of art technologies. SBJITMR lets you empower yourself with sound knowledge, wisdom, experience and training both at the academic level of Engineering and in the highly competitive global industrial market. The infrastructure facilities and state-of-the-art equipment's combined with a galaxy of competent, talented and dedicated faculty contribute to an enjoyable and an easy learning experience. This we do by inspiring you to involve into a whole lot of innovative & creative projects being pursued by the inspired student community under the guidance of their faculty mentors.

FROM THE HEAD OF DEPARTMENT

PROF. AMIT TAJNE

Head of Department,
Mechanical Engineering Department,
SBJITMR, Nagpur
hodmech@sbjit.edu.in



The mission to educate the next generation of leaders in the Mechanical Engineering profession started in 2010-11 to provide beneficial service to the society. The aesthetically built infrastructure with well-equipped laboratories and experienced staff, caters to excellence in academics. The teaching methodology is systematically developed so that the students are receptive to the learning imparted to them. The students are mentored for membership of societies such as SAE, ISHRAE through which they participate in various pan India competitions and activities. Students are also encouraged to participate in various paper presentations, project competitions and engineering exhibitions all over the country. The Department encourages its faculties and students to undertake industrial training, internship and industrial case study. It conducts industrial visits to understand the industry needs and technological changes. Emphasis is given to develop attitude, aptitude and soft skills of the students, so as to prepare competent engineering professionals. Expert from industry and academia are invited to conduct seminars & guest lectures.

WORDS FROM EDITOR

Dear Readers,

It is with immense pleasure that I welcome you to the latest edition of "YANTRIKI," our Mechanical Department College magazine. As we delve into the world of innovation, engineering excellence, and the pursuit of knowledge, this issue promises to be a captivating journey.

In the realm of mechanical engineering, where precision meets creativity, our students and faculty have been pushing the boundaries of what is possible. Within these pages, you will find articles, features, and insights that reflect the dedication that characterize our department.

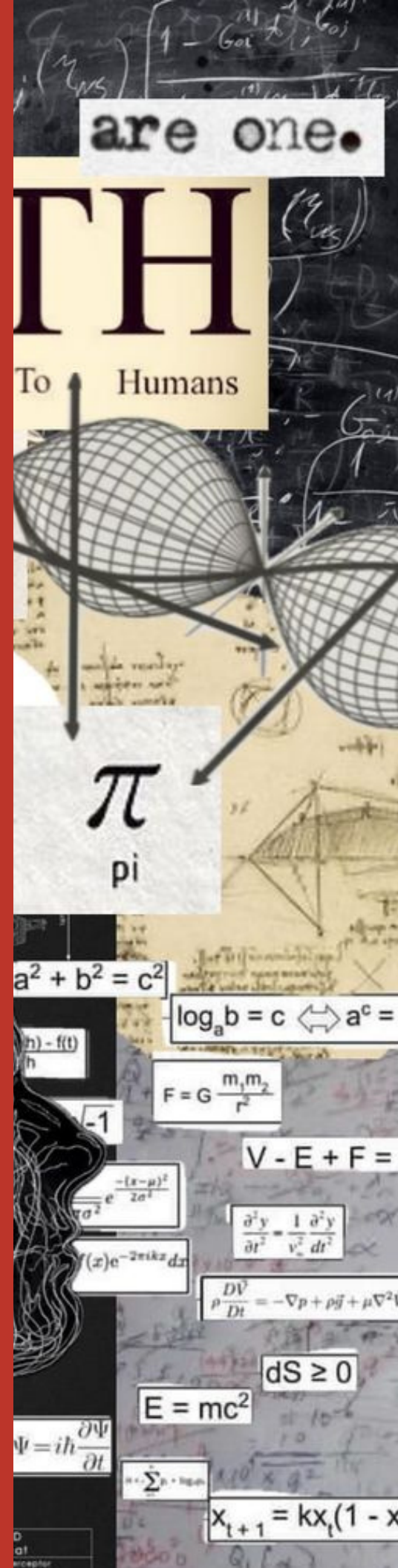
As the editor, I am continually impressed by the talent, passion, and enthusiasm of our students and faculty. This magazine is a testament to their dedication and a platform to showcase their remarkable work.

I want to extend my gratitude to our contributors, writers, photographers, and editorial team who have worked tirelessly to bring this magazine to life. It's through their collective efforts that we are able to celebrate the achievements and aspirations of our department.

In closing, I encourage you to explore the pages of "YANTRIKI" with an open mind and a curious heart. May the stories within these pages inspire you, spark your creativity, and deepen your appreciation for the world of Mechanical Engineering.

With warm regards,

Editor-in-Chief - YANTRIKI



MAGAZINE COMMITTEE

YANTRIKI 2021-22

Faculty Coordinator/ Chief Editor:



Prof. Sarvesh Biyani

Editor:

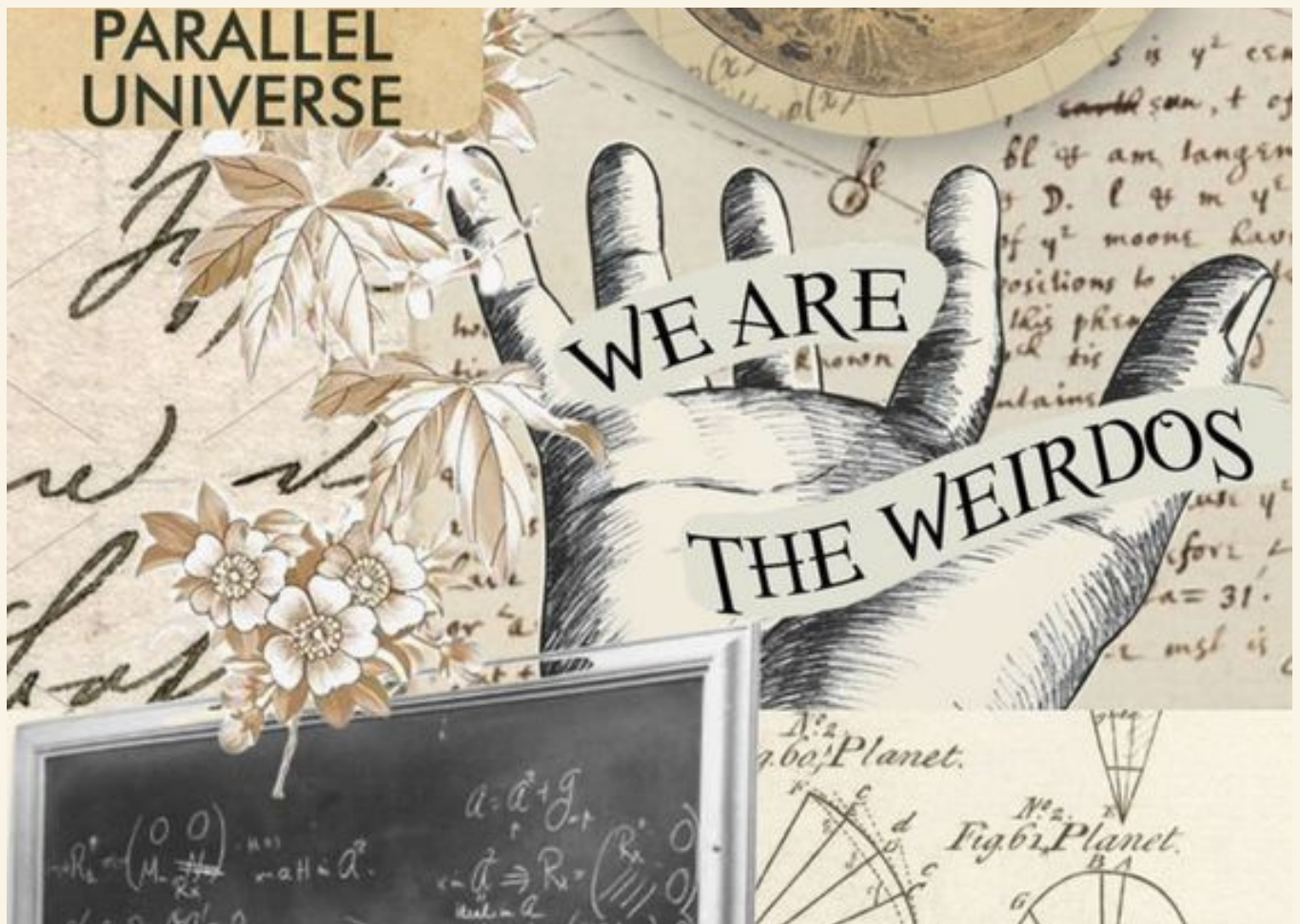


Mr. Prateek Tinguria

Student Coordinator:



Ms. Gargi Sande



TECHNICAL ARTICLES

"Behind every technical article lies a world of research and dedication."



TITLE: THE ELECTRIFICATION OF TRANSPORTATION: A COMPREHENSIVE ANALYSIS OF ELECTRIC VEHICLES

By Jitendra Asole

Introduction:

The automotive industry is undergoing a profound transformation with the rise of electric vehicles (EVs). As concerns about climate change, air pollution, and dependence on fossil fuels intensify, electric vehicles have emerged as a promising solution to address these challenges. This essay explores the key components, features, benefits, challenges, and the overall impact of electric vehicles on the automotive landscape.

Key Components of Electric Vehicles:

- 1. Battery Pack:** Electric vehicles are powered by lithium-ion battery packs, serving as the heart of the EV. These advanced batteries store electrical energy and determine the vehicle's range. Ongoing research and development in battery technology are crucial for enhancing energy density, reducing costs, and improving overall performance.
- 2. Electric Motor:** Electric vehicles utilize electric motors for propulsion. Unlike internal combustion engines, electric motors deliver instant torque, providing a smooth and responsive driving experience. Advances in motor efficiency contribute to the overall performance and acceleration capabilities of electric vehicles.
- 3. Charging Infrastructure:** The growth of electric vehicles is intricately tied to the development of a robust charging infrastructure. Charging stations are classified into different categories, including home chargers, public chargers, and fast-charging stations. The accessibility and convenience of charging facilities play a pivotal role in the widespread adoption of EVs.

Types of Electric Vehicles:

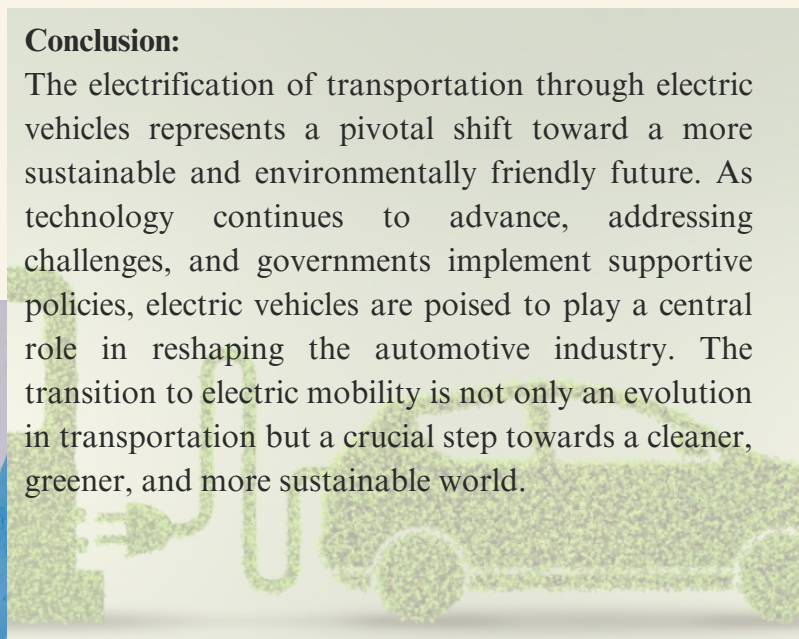
- **Battery Electric Vehicles (BEVs):** BEVs operate solely on electric power, relying on the energy stored in their batteries. With no internal combustion engine, these vehicles produce zero tailpipe emissions, making them a green alternative to traditional vehicles.
- **Plug-in Hybrid Electric Vehicles (PHEVs):** PHEVs combine an electric motor with an internal combustion engine. They offer flexibility by operating on electric power for shorter distances and switching to the internal combustion engine for longer journeys. This dual-mode operation addresses concerns related to range anxiety.

Environmental Benefits:

Electric vehicles contribute significantly to environmental sustainability. By eliminating tailpipe emissions during operation, EVs help reduce air pollution and greenhouse gas emissions, playing a crucial role in mitigating climate change. The environmental impact, however, extends beyond the vehicle's use phase and includes considerations related to battery production, recycling, and disposal.

Conclusion:

The electrification of transportation through electric vehicles represents a pivotal shift toward a more sustainable and environmentally friendly future. As technology continues to advance, addressing challenges, and governments implement supportive policies, electric vehicles are poised to play a central role in reshaping the automotive industry. The transition to electric mobility is not only an evolution in transportation but a crucial step towards a cleaner, greener, and more sustainable world.



"ADVANCEMENTS IN SUSTAINABLE ENERGY GENERATION: HARNESSING THE POWER OF SOLAR PHOTOVOLTAICS"

ASHISH RAJESH POONIA

In an age of environmental concern, clean energy is on the rise. Solar photovoltaic (PV) technology is at the forefront, transforming how we generate power. This article explores recent advancements in solar PV, driving sustainable energy solutions.

The Efficiency Revolution:

One of the primary challenges of solar PV technology has always been improving efficiency – how effectively can sunlight be converted into electricity? Researchers and engineers have been relentless in their pursuit of higher efficiency rates, and the results are awe-inspiring.

Cutting-edge solar cells, including multi-junction and tandem cells, are now pushing efficiency boundaries beyond 40%. These breakthroughs mean that more electricity can be generated from the same amount of sunlight, making solar power more practical and cost-effective.

Thin-Film Innovations:

Traditionally, solar panels have been rigid and bulky. However, recent developments in thin-film solar technology have revolutionized the industry. Thin-film solar cells are flexible, lightweight, and can be integrated into a variety of surfaces, from buildings to clothing. This flexibility opens up endless possibilities for solar power integration and design.

Solar Tracking Systems:

To maximize energy capture, solar tracking systems have become more sophisticated. These systems follow the sun's path throughout the day, ensuring that solar panels are always positioned optimally. AI-driven tracking algorithms have made these systems even more efficient, adapting to weather conditions and seasonal changes.

Energy Storage Solutions:

One of the challenges of solar energy is its intermittent nature. The sun doesn't always shine, and energy needs fluctuate. To address this, advancements in energy storage technologies, such as lithium-ion batteries and flow batteries, have been instrumental in ensuring a continuous and reliable power supply from solar sources.

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The Future of Solar PV:

The future of solar PV is promising. Ongoing research into materials like perovskite cells aims to boost efficiency and cut production costs. Integration with IoT and smart grids holds potential for intelligent, sustainable energy ecosystems.

These innovations reflect our commitment to a greener future. Solar PV's limitless potential will shape a cleaner world for generations to come. Stay tuned for more.



MARINE ENGINEERING: NAVIGATING THE SEAS OF INNOVATION AND SAFETY

By NAINA RUPESH AGRAWAL

Marine engineering stands at the helm of technological prowess and innovation, driving the design, construction, and operation of waterborne vessels and offshore structures. This specialized branch of engineering combines mechanical, electrical, and naval architecture principles to ensure the seamless functioning, safety, and environmental responsibility of maritime endeavors.

At its core, marine engineering involves the comprehensive process of ship design and construction. Engineers in this field meticulously work on hull designs, propulsion systems, and auxiliary components to craft vessels that meet specific requirements. Propulsion systems, a vital aspect of marine engineering, are designed to optimize fuel efficiency, reduce emissions, and deliver reliable performance. As the industry strives for sustainability, marine engineers play a pivotal role in developing eco-friendly propulsion technologies.

Power generation on board is another domain where marine engineers excel. The intricate task of providing electricity for lighting, navigation, communication, and various other functions requires the integration of sophisticated power generation systems. These systems are not only geared towards efficiency but are also designed with redundancy and reliability in mind, crucial for the safety of the vessel and its occupants.

Navigation and control systems form the nerve center of marine engineering. Engineers are tasked with the development and maintenance of radar systems, GPS, autopilot systems, and communication systems. The goal is to ensure vessels navigate the vast oceans with precision and safety. Safety, indeed, is a cornerstone of marine engineering.

Engineers implement and maintain safety systems, including fire suppression systems, life-saving equipment, and emergency response protocols, to mitigate risks and protect lives at sea. The responsibilities of marine engineers extend beyond the open sea to include the maintenance and repair of marine vessels. Regular inspections, troubleshooting, and preventive maintenance measures are undertaken to guarantee the longevity and operational readiness of the equipment. This meticulous attention to maintenance contributes to the resilience and reliability of marine vehicles in the face of challenging maritime conditions.

Environmental considerations have become increasingly central to marine engineering. Engineers are actively engaged in developing technologies that reduce emissions, minimize the environmental impact of maritime activities, and ensure compliance with stringent environmental regulations. The focus on sustainability is not only an industry requirement but a reflection of the broader global commitment to safeguarding our oceans.

In addition to traditional ship design, marine engineers are pivotal players in offshore engineering. The design and maintenance of offshore structures such as oil rigs, platforms, and underwater pipelines fall within their purview. This diversification of roles showcases the adaptability and versatility inherent in marine engineering.

In conclusion, marine engineering is a dynamic and multidisciplinary field that plays a pivotal role in the maritime industry. From the design and construction of vessels to the implementation of cutting-edge technologies for propulsion, navigation, and safety, marine engineers are at the forefront of advancing the capabilities and sustainability of maritime transportation.

"एक नजर मैकेनिकल इंजीनियरिंग के नए दिशाओं में"

द्वारा - अभिषेक पडघन

मैकेनिकल इंजीनियरिंग, जो मशीनों, यांत्रिकी, और संचालन तंत्रों के क्षेत्र में गहरी जानकारी और कौशल का प्रतीक है, हमारे समय का एक महत्वपूर्ण और रोचक क्षेत्र है। यह विज्ञान, प्रौद्योगिकी, और उद्योग के लिए नवाचारों का केंद्र है, जिसमें स्थिरता और नवाचार का संयोजन होता है। इस लेख में, हम चर्चा करेंगे कि मैकेनिकल इंजीनियरिंग के क्षेत्र में कौन-कौन से नए दिशाएँ दिखाई दे रही हैं और इसके वर्तमान और भविष्य के महत्व को जानेंगे।

1. एकीकृत डिजाइन और निर्माण (Integrated Design and Manufacturing):

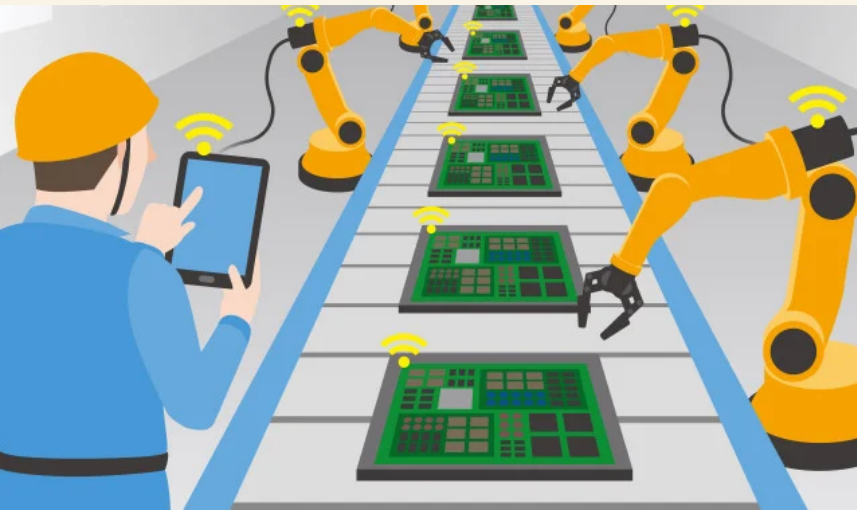
मैकेनिकल इंजीनियरिंग में एकीकृत डिजाइन और निर्माण के क्षेत्र में बड़े बदलाव आए हैं। अब मैकेनिकल इंजीनियर्स उत्पाद के डिजाइन से लेकर उसके निर्माण तक के प्रक्रियाओं को एकीकृत रूप से सोच और प्रबंधित करते हैं। इससे उत्पादन प्रक्रिया में सुधार होता है और वस्त्र, उपकरण, और वाहनों की गुणवत्ता में वृद्धि होती है।

2. रोबोटिक्स और ऑटोमेशन (Robots and Automation):

मैकेनिकल इंजीनियरिंग के क्षेत्र में रोबोटिक्स और ऑटोमेशन के लिए एक नया क्षेत्र खुल रहा है। स्वार, सेंसर्स, और ऑटोमेशन की तकनीकें मैकेनिकल प्रक्रियाओं को स्वच्छ, सुरक्षित, और अधिक सुदृढ़ बनाने में मदद कर रही हैं। आधुनिक संचालन तंत्रों की उपयोगिता विस्तार से बढ़ रही है, जैसे कि ऑटोमेटेड मैनुफैक्चरिंग और इंडस्ट्रियल रोबोटिक्स।

3. ऊर्जा संरक्षण और प्रदूषण नियंत्रण (Energy Conservation and Pollution Control):

ऊर्जा संरक्षण और प्रदूषण नियंत्रण के क्षेत्र में मैकेनिकल इंजीनियरिंग के नए तरीकों की खोज की जा रही है। उत्पाद की





A.I.M.E.S. denotes the Association of Innovative Mechanical Engineering Students which means that the students used their mechanical strength and brain for innovation by working smart as per the technology. The motto of Student Forum is to worked with the strengths of students and to overcome their weaknesses as well as for the development of new lead skills in all aspects of life.

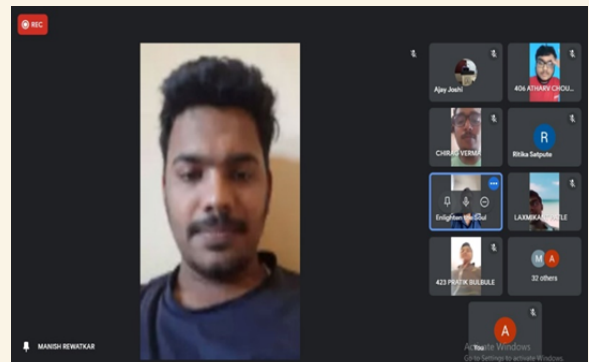
A.I.M.E.S., the student forum is organized and managed by the students of 3rd year and the departmental participation. A.I.E.M.S. organize 3 day program in which technical and non-technical events are introduce. The events consist of cricket, football, kabaddi, mini project, zestomania, etc. To fulfil the motto of forum, A.I.M.E.S. acts as the important point at institution for interpersonal skill development. It encourages students to participate and nurture themselves and their interest of skills. The forum not only develops student's interaction with the institute but also develops social activity outside the institute.



A.I.M.E.S. ACTIVITIES

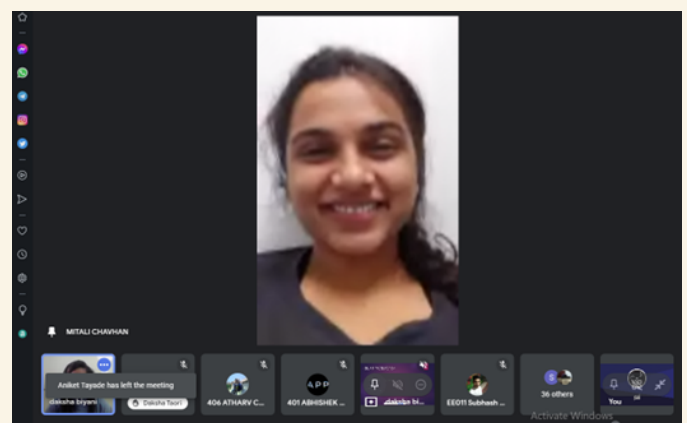
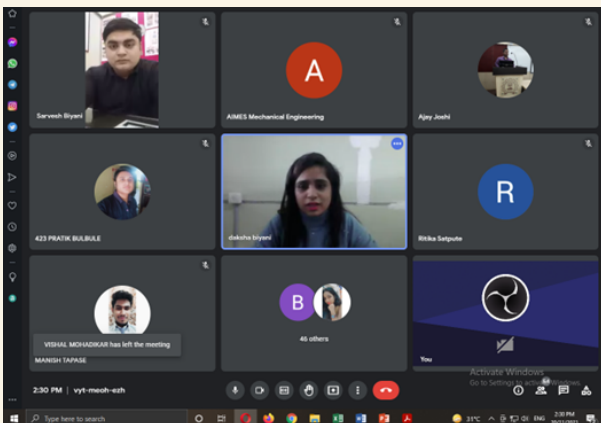
SESSION ON “TIME TO MEET YOUR BEST VERSION”

AIMES the departmental forum of Mechanical Engineering Department, S.B. Jain Institute of Technology Management and Research, has organized Session on “Time to meet your best version” for the students of Mechanical Engineering on 21/11/2021. Mr. Vinay Chawla has discussed various ways by which student can improve themselves to meet best version. He explain various topics through numerous examples. In this session student also ask their queries about on various topics.



SESSION ON VIDEO RESUME MAKING

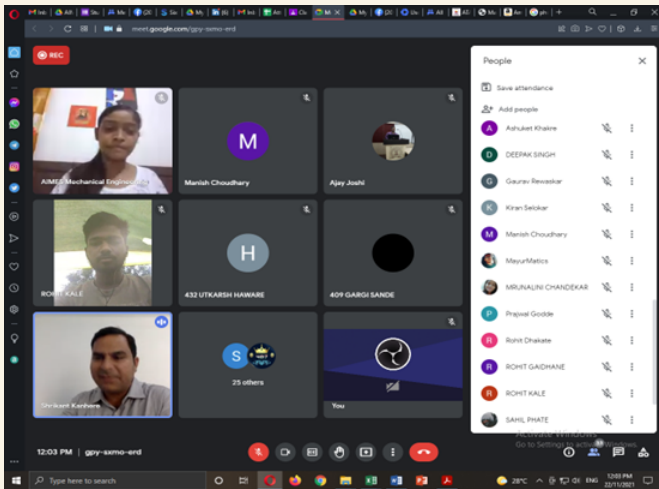
AIMES the departmental forum of Mechanical Engineering Department, S.B. Jain Institute of Technology Management and Research, has organized Session on Video Resume` Making for the students of Mechanical Engineering on 20/11/2021. Prof. Daksha Taori has explained students about resume writing process, dos and don'ts in resume writing and video resume making process. In this interactive session student also ask their queries about video resume making.



A.I.M.E.S. ACTIVITIES

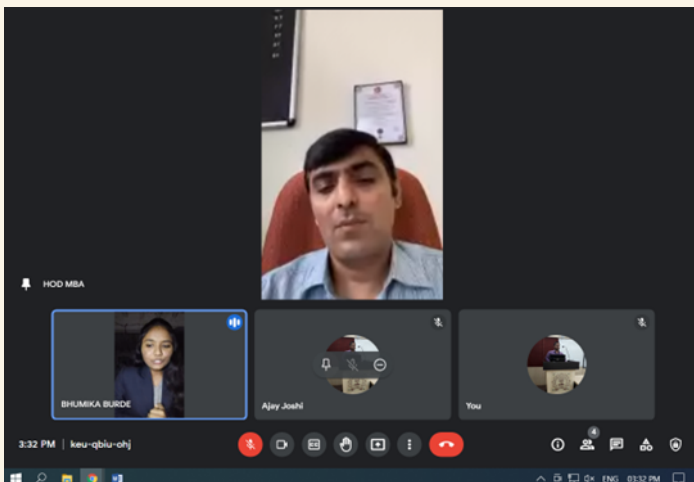
SESSION ON “STRESS MANAGEMENT”

AIMES the departmental forum of Mechanical Engineering Department, S.B. Jain Institute of Technology Management and Research, has organized Session on “Time to meet your best version” for the students of Mechanical Engineering on 22/11/2021. Mr. Shrikant Kanhere has discussed about Stress Management process. In this session student also ask their queries about on various topics.



MOCK INTERVIEW

AIMES the departmental forum of Mechanical Engineering Department, S.B. Jain Institute of Technology Management and Research, has organized Mock Interviews via Google Meet. The activity was conducted for 10 students selected from the previously taken aptitude test. Dr. Himanshu Tiwari has conducted the interviews.





TECHNICAL ACTIVITIES

"Explore the innovative technical endeavors undertaken by our department, pushing the boundaries of knowledge and excellence."



VALUE ADDED COURSE ON AUTOCAD

By doing this course Students will be able to gain the knowledge regarding basic operations of AutoCAD software and use various commands, and apply the knowledge of AutoCAD to draw problems on orthographic and isometric views of machine components.

Department of Mechanical Engineering, S.B. Jain Institute of Technology Management and Research, has organized AutoCAD (Certification/Value Added) Course for second and third year students from 31st Jan 2022 to 05th Feb 2022. The session started with the course introduction, Course Objectives, Course Outcomes, Course Content and software required for the successful completion of the course.

The course was divided into Five Modules (Total course duration 30 Hour).

Day 1: Module -I: Basics of AutoCAD (04 Hrs)

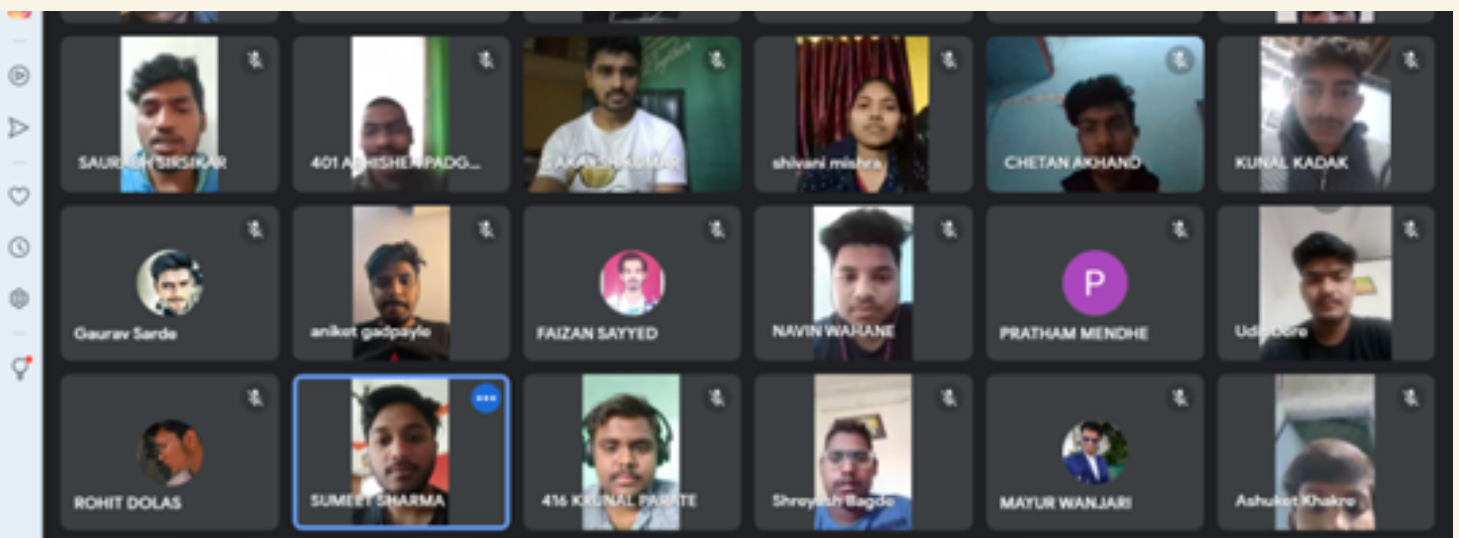
Day 2: Module -II: Modify tool and status bar (06 Hrs)

Day 3: Module -III: Text, Leader and Viewports (06 Hrs)

Day 4: Module - IV: Blocks and Drawing Utilities (06 Hrs)

Day 5: Module -V: 3D Modeling and Page setup (08 Hrs)

Day 6: Test and Assignment.



VALUE ADDED COURSE ON “LEAN PRODUCTION SYSTEM”

The purpose of this course was to introduce about Lean Production System, tools and techniques and its implementation strategies. With this course student will be able to apply the knowledge of Lean production system at any workplace. Student will be able to improve the workplace / productivity.

Department of Mechanical Engineering, S.B. Jain Institute of Technology Management and Research, has organized a Value Added Course on “Lean Production System” for third year students from 31/08/2021 – 06/09/2021. The session started with the course introduction, Course Objectives, Course Outcomes and Course Contents. The course was divided into SIX Modules (Total course duration 30 Hour) namely – Introduction to Lean Production System, Understanding Flow, Continuous Flow, Improving Flow, Maintaining Flow, Quality and Continuous Improvement. The workshop provided a comprehensive overview of Lean Production, encompassing foundational principles, flow optimization, improvement strategies, and the importance of quality and continuous enhancement in manufacturing processes.



SAE

SAE, the Society of Automotive Engineers, is an organization that holds a paramount position in the realms of automotive and aerospace industries. With a rich history dating back to its founding, SAE has continuously evolved to become a driving force in advancing mobility knowledge and solutions for the betterment of humanity. At our college, SAE has a prominent presence with active student chapters. Students can easily become part of this dynamic organization, which opens doors to a world of opportunities. From the renowned Formula SAE and Baja SAE competitions to aerospace projects and EcoCAR challenges, SAE provides students with hands-on experiences that foster skill development and innovation. Additionally, SAE offers a wealth of publications and resources, connecting students with industry experts and career prospects. By joining SAE, students can not only enhance their engineering capabilities but also establish valuable connections with professionals in their field. SAE is not just a campus organization; it's a gateway to personal and professional growth, paving the way for a future at the forefront of mobility innovation. So, whether you're interested in cutting-edge technology or seeking to build a network of like-minded individuals, SAE is your ticket to an exciting journey in the world of engineering and mobility.



Achievements

This section celebrates the outstanding achievements of our faculty and students. From groundbreaking research to prestigious award, their contributions continue to inspire excellence within our department.



Students Achievement

SN	Name of Faculty Member	Details of Achievement
1	Prof .Yogesh Joshi and Prof Pankaj Jaiswal	Patent, Title of the Invention: A VARYING LOAD CREEP TESTING MACHINE, Patent electronically filed on 11/4/2022, numbered 2022/04067, Application accepted on 2022/05/17, Patent granted on 29-06-2022.
2	Himanshu Devendra Wagh and Hemant Bansod	Industrial Design Patent, Title of the Invention: Engine with Tank, Design No. 364462-001,Date 20/05/2022
3	Prof Nilesh R.Gowardipe	Copyright, Title of work: Design And Fabrication Of 3-Axis Mini CNC Milling Machine, Dated: 29/11/2022, Diary Number: 13098/2022-CO/L, Date of Application: 20/06/2022.
4	Prof.Yogesh Joshi	Copyright, Title of work: Thermal Performance Investigation of Graphene Quantum Dots Based Nanofluid in Heat Exchanger, Dated: 21/11/2022, Diary Number :6816/2022-CO/L, Date of Application : 30/03/2022
5	Prof. Mohammad Hasan Akhtar	Best research paper award , Title of Work:Investigation of Process Parameters for Optimum Thermal Energy Distribution in Spark Erosion Process, Name of Awarding Agency: ICASTM-2021 SBJITMR Nagpur, 24-12-2021
6	Prof .Yogesh Joshi	Copyright applied on 5th May 2022 titled as & quot; Performance Investigation of Graphene and MWCNT based nanosuspension to iprover thermophysical properties of Lubrication oil".
7	Prof .Yogesh Joshi	Best research paper award, Title of Work: Effect of Multi-Walled Carbon Nanotube on Thermophysical Properties of Polyester and Mineral Oil " in the conference National Conference on Innovation in Science, Engineering and Management (NC-ISEM) at G H Rasoni Institute of Business Management, Jalgaon on 30th April 2022.



Faculty Publications

Sr. No.	Author Name	Title of Publication	Name of Publisher
1	Dr.Vinit Gupta	Adhesive and normal stress dependent dynamic friction of a gelatine hydrogel	Proceedings of the Institution of Mechanical Engineers, Part J: Journal of Engineering Tribology.
2	Yogesh G. Joshi	Experimental investigation for thermophysical properties of reduced Graphene-Based nanosuspension for refrigeration lubricant	Material Today Proceedings: Elsevier 2022
3	Yogesh G. Joshi	Synthesis and thermophysical properties of functionalized graphene quantum dots for enhancing heat transfer of conventional fluid	Material Today Proceedings: Elsevier 2022
4	Yogesh G. Joshi	Effect of multi-walled carbon nanotube on thermophysical properties of polyester and mineral oil	Material Today Proceedings: Elsevier 2022
5	Yogesh G. Joshi	Experimental Investigation of Creep Behavior of Polypropylene(PP) Material	SAMRIDDHI : A Journal of Physical Sciences, Engineering and Technology (2022)
6	Dr. Harish Bhatkulkar	Energy Performance of Window Air Conditioner in the hot climate using Evaporative Cooling Pads,	" Samriddhi: A Journal of PhysicalSciences, Engineering and Technology (A UGC CARE listed Journal)"
7	Dr. Harish Bhatkulkar	Nano Fluids used in VCRS: A Review	" Samriddhi: A Journal of PhysicalSciences, Engineering and Technology (A UGC CARE listed Journal)"
8	Dr. Harish Bhatkulkar	Experimental Investigation of Creep Behavior of Polypropylene(PP) Material	SAMRIDDHI : A Journal of Physical Sciences, Engineering and Technology (2022)
9	Himanshu D. Wagh	Energy Performance of Window Air Conditioner in the hot climate using Evaporative Cooling Pads	" Samriddhi: A Journal of PhysicalSciences, Engineering and Technology (A UGC CARE listed Journal)"
10	Himanshu D. Wagh	Nano Fluids used in VCRS: A Review, Samriddhi	" Samriddhi: A Journal of PhysicalSciences, Engineering and Technology (A UGC CARE listed Journal)"

Faculty Publications

Sr. No.	Author Name	Title of Publication	Name of Publisher
11	Hemant M. Bansod	Nano Fluids used in VCRS: A Review,	" Samriddhi: A Journal of Physical Sciences, Engineering and Technology (A UGC CARE listed Journal)"
12	Hemant M. Bansod	Creep behaviour of Materials: Concept and Methods	" Samriddhi: A Journal of Physical Sciences, Engineering and Technology (A UGC CARE listed Journal)"
13	Mohd. Hasan Akhtar	Investigation of Process Parameters for Optimum Thermal Energy Distribution in Spark Erosion Process	" Samriddhi: A Journal of Physical Sciences, Engineering and Technology (A UGC CARE listed Journal)"
14	Pankaj Jaiswal	Nano Fluids used in VCRS: A Review	" Samriddhi: A Journal of Physical Sciences, Engineering and Technology (A UGC CARE listed Journal)"
15	Pankaj Jaiswal	Investigation of Process Parameters for Optimum Thermal Energy Distribution in Spark Erosion Process	" Samriddhi: A Journal of Physical Sciences, Engineering and Technology (A UGC CARE listed Journal)"
16	Nilesh Gowardipe	Investigation of Process Parameters for Optimum Thermal Energy Distribution in Spark Erosion Process	" Samriddhi: A Journal of Physical Sciences, Engineering and Technology (A UGC CARE listed Journal)"
17	Sarvesh Biyani	Investigation of Process Parameters for Optimum Thermal Energy Distribution in Spark Erosion Process	" Samriddhi: A Journal of Physical Sciences, Engineering and Technology (A UGC CARE listed Journal)"
18	Akshay Shewalkar	Performance analysis of refrigerated storage chamber using phase change material.	" Samriddhi: A Journal of Physical Sciences, Engineering and Technology (A UGC CARE listed Journal)"



INTERNSHIPS



Our Mechanical Department students completed rigorous Industry Internship Program. This invaluable experience allowed them to apply their academic knowledge in real-world settings. Working alongside industry professionals, they gained hands-on experience, enhanced their technical skills, and developed a deeper understanding of industry practices. We are proud of their dedication and look forward to seeing their enriched perspectives contribute to their academic and professional journeys.

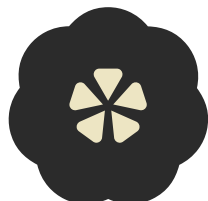
Consolidated sheet for Online/Offline Internship

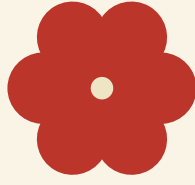
	Kritika technical academy
	Mahindra & Mahindra
Adani wilmer Ltd	Mahindra Unnati Motors
Aditya Auto Agencies Nagpur	Maruti Suzuki workshop sky automobiles Raipur
Aditya Tata motors	MECHANO
AK GANDHI TVS SHOWROOM	Morarjee Textiles Limited Butibori Nagpur
Align Infotech and Kritika Technical Academy	NGP WOOD
Anant extrusion ltd	NPTEL
Arya Autowheels PVT. LTD	OCW
Balaji Service Station (Maruti Authorised Service Station)	Pantech e learning
Barquecon Technologies Pvt.Ltd	PATEL ENGINEERING LIMIT
BLCHEM INDUSTRIES	Pratap Electronics and Electricals
CEAT TYRES	Prince jinning and pressing pvt Ltd
Coursera course	Progressive Engineers & Repairers
Delight Interior Furniture	SAIKRUPA AUTOMOBILE
Elite Techno Groups	Sequel ford
Gupta Mechanical	Shivalika Industries
GUSTOVALLEY TECHNOVATION INDUSTRY 4.0	Skyrider institute of technology
Gustovalley technovations	Subarshan Honda
Hero Automobile, kalmeshwar	Sunrise Infotech
Hindustan petroleum Corporation Limited	Tata Advance system
Internshala	TATA MOTORS
Jaika Motors (Tata Motors)	TCS
Karan sales	Udemy
Khamla motors	Western coalfield limited central workshop, Tadali, Chandrapur

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Aditya Rahate	Patel Engineering Ltd.
Akanksha Sakhare	IDPL Japan Co. Ltd.
Amit Shahare	Consultadd Services Pvt. Ltd.
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MECHANICAL ENGINEERING IS NOT JUST A DEGREE, IT IS A ROYALTY!



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