



ARM IET

Alamuri Ratnamala

Institute of Engineering and Technology

(Run by Koti Vidya Charitable Trust)

Accredited by NAAC with 'B+' Grade
ISO 9001:2015 CERTIFIED

NEWSLETTER

EDITION

JANUARY – MARCH 2025

VOL - 2

VISION

To strive for producing a Center of excellence for inculcating hands-on skills to enhance career development by meeting the needs of society in the area of Mechanical Engineering.

MISSION

To impart total quality education through interactive teaching-learning techniques and industry institute interaction.

To educate students about professional & ethical responsibilities and train them to build leadership and entrepreneurship qualities for their career development.

To create opportunities and guide students in acquiring career oriented jobs.

To create interest among students to pursue higher studies.

DEPARTMENT OF MECHANICAL ENGINEERING

CHAIRMAN'S MESSAGE

Our vision is based on project-based learning, hard work, a strong belief in teamwork, and a high level of responsibility. Learning should be based on practical knowledge and not merely knowing things. Until and unless learning solutions relate to real life and motivate the learner to gain the knowledge. Any engineering institution worth its name looks to optimize the productivity of future engineers. Our institution has set specific objectives and planned various activities for achieving excellence in technical education. We produce professionals who have the optimum mix of attitude, skill, culture, and knowledge to adapt themselves to the emerging trends.

PRINCIPAL'S MESSAGE

It gives me immense pleasure to welcome you to the creative world of ARM IET. This has a very beautiful campus and is equipped with state-of-the-art infrastructure. We have well-equipped labs, workshops, and libraries to help students in attaining the highest standards in academics, research, and professional skills. The main focus of the institution is to empower students with sound knowledge, wisdom, experience, and training both at the academic level of engineering and in the highly competitive global industrial market.

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DEPARTMENT OF MECHANICAL ENGINEERING (POLYTECHNIC)

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PROGRAM OUTCOMES STATEMENTS

PO.1 Basic and Discipline specific knowledge: Apply knowledge of basic mathematics, science and engineering fundamentals and engineering specialization to solve the engineering problems.

PO.2 Problem analysis: Identify and analyze well-defined engineering problems using codified standard methods.

PO.3 Design/ Development of Solutions: Design solutions for well-defined technical problems and assist with the design of systems components or processes to meet specified needs.

PO.4 Engineering Tools, Experimentation and Testing: Apply modern engineering tools and appropriate technique to conduct standard tests and measurements.

PO.5 Engineering Practices for Society, Sustainability and Environment: Apply appropriate technology in context of society, sustainability, environment and ethical practices.

PO.6 Project Management: Use engineering management principles individually, as a team member or a leader to manage projects and effectively communicate about well-defined engineering activities.

PO.7 Life Long Learning: Ability to analyze individual needs and engage in updating in the context of technological changes.



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HOD'S MESSAGE:

Welcome to the department of Mechanical Engineering. It gives me pride and pleasure to introduce department. We started Diploma in Mechanical Engineering from 2012 with 60 intake capacity later on it increases to 120 in 2013. It is one of the oldest and broadest of engineering disciplines. Our aim to provide students with a perfect blend of intellectual and practical experiences that helps them to serve our society and address a variety of needs.

Our Laboratories have been very well established not only to cover complete syllabus but to motivate students to learn beyond the syllabus which definitely develops complete knowledge of the subject (both the practical and theoretical). We had entered into Memorandum of Understanding (MOU) with Industries and institutes for imparting latest technologies into academics. We also conduct various Value Added program and workshops with hands-on experience like 3D Printing, Robotics, and Solar Energy etc.

Most of the students of Mechanical Engineering Department are pursuing higher education and some students are placed in core industries.

EDITOR'S MESSAGE:



Dear Readers,

It is a great pleasure to present the second volume and second issue of the Newsletter for the Department of Mechanical Engineering at Alamuri Ratnamala Institute of Engineering and Technology, Sapgaoon, Tal-Shahapur, Thane - 421601. Since the inception of our college in 2008, the Mechanical Engineering Department has consistently excelled in terms of admissions, academic results, innovative projects, successful placements, and various extra and co-curricular activities.

Our continuous endeavor has been to enhance the quality and standard of education, thereby attracting and nurturing the best talent. This Mechanical Engineering Newsletter serves as a platform for disseminating valuable information, providing an insightful overview of the various activities undertaken during the even semester. It highlights student achievements in academics and extracurricular engagements while also acknowledging the significant contributions of our dedicated teaching and non-teaching faculty members.

I want to share my sincere gratitude to all of the contributors and well-wishers for their support and encouragement. I look forward to your ongoing involvement and excitement in the upcoming editions.

Warm regards,

Mr. Majid Afsar Hussain

Assistant Professor,
Department of Mechanical Engineering, ARMIET.



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Emerging Trends in Mechanical Engineering

Dear Students, Faculty, and Readers,

Mechanical Engineering has always been the backbone of technological advancements, and today, the field is evolving at an unprecedented pace. The integration of digital technologies, sustainable solutions, and advanced manufacturing is reshaping industries and creating new opportunities for engineers.

One of the most exciting trends is the rise of Industry 4.0, where automation, IoT, and AI-driven systems are transforming manufacturing processes. Smart factories, predictive maintenance, and data-driven decision-making are becoming the norm, demanding a new set of skills from aspiring engineers.

Another key focus area is sustainable engineering. With the growing emphasis on environmental conservation, innovations in renewable energy, electric vehicles, and energy-efficient systems are gaining momentum. Mechanical engineers are at the forefront of designing cleaner technologies, improving energy efficiency, and reducing carbon footprints.

Additionally, 3D printing and advanced materials are revolutionizing product design and manufacturing. The ability to rapidly prototype and produce complex components with high precision is enhancing industries from aerospace to biomedical engineering.

As we embrace these advancements, it is crucial for students and professionals to continuously upskill and stay updated with emerging technologies. I encourage everyone to explore interdisciplinary learning, engage in research, and develop a mindset that adapts to change.

The future of Mechanical Engineering is dynamic and full of possibilities. Let us work together to innovate, lead, and contribute towards building a smarter, more sustainable world.

Best regards,

Mr. Yogesh R. Shivarkar

Head of the Department

Dept. of Mech. Engg.

ARMIET, Shahapur.



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ARM IET, Shahapur.

The Importance of Production Drawing in Mechanical Engineering

Production drawing is a crucial aspect of mechanical engineering, serving as the foundation for manufacturing and assembling mechanical components with precision. It provides detailed information about the dimensions, materials, tolerances, and manufacturing processes required to create a product.

1. Clarity in Manufacturing

A well-prepared production drawing eliminates ambiguities in the manufacturing process. It offers clear instructions to machinists, fabricators, and assembly workers, reducing errors and ensuring consistency in production.

2. Standardization and Communication

Production drawings follow standard engineering conventions, making them a universal language for engineers, designers, and manufacturers. This facilitates seamless communication between different teams involved in the production cycle.

3. Cost and Time Efficiency

By providing precise measurements and material specifications, production drawings minimize material wastage and rework. This leads to cost savings and enhances production efficiency by streamlining the manufacturing process.

4. Quality Control and Inspection

Quality assurance relies on production drawings for checking dimensions, tolerances, and surface finishes. Inspectors and quality control engineers use these drawings to verify that the manufactured components meet design specifications.

5. Assembly and Maintenance Guidance

Apart from manufacturing, production drawings also play a crucial role in assembling mechanical components and providing maintenance instructions. They help technicians understand how different parts fit together, ensuring proper functionality.

6. Support for Automation and CNC Machining

With the advancement of automation and Computer Numerical Control (CNC) machining, production drawings serve as input for programming these machines. Accurate drawings enable precise machining, leading to high-quality finished products.

Best regards,
Mr. Mayur Patil, Dept. of Mech. Engg.



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Solid Modeling and Automated Design (Auto CAD)

The future of solid modeling and automated design (Auto AD) in mechanical engineering is evolving rapidly due to advancements in AI, cloud computing, and generative design. Here are the key trends shaping the future:

AI-Driven Design Automation: AI and machine learning are being integrated into CAD software to automate repetitive tasks, optimize designs, and predict failures. Generative design uses AI to create multiple optimized design alternatives based on constraints like weight, material, and strength.

Cloud-Based & Collaborative CAD: Cloud CAD platforms (like Autodesk Fusion 360, Onshape) enable real-time collaboration, reducing the need for expensive hardware. Engineers from different locations can work simultaneously on a single model.

Integration with Additive Manufacturing (3D Printing): CAD software now incorporates direct workflows for additive manufacturing. New tools enable lattice structures and topology optimization for lightweight, high-strength parts.

Augmented Reality (AR) & Virtual Reality (VR): AR/VR is being used for interactive visualization, training, and design verification. Engineers can walk through and inspect 3D models before manufacturing.

Parametric and Feature-Based Modeling Evolution: More powerful parametric and constraint-based modeling allows easy design modifications. AI-enhanced software predicts user intentions and suggests modifications.

Digital Twins & Simulation Integration: Digital twins create virtual replicas of physical products for real-time monitoring and performance simulation. Integrated FEA (Finite Element Analysis) and CFD (Computational Fluid Dynamics) help in preemptive failure analysis.

IoT-Connected CAD for Smart Manufacturing: IoT sensors embedded in products will feed real-world performance data back into CAD for continuous improvement. AI-driven predictive maintenance models can prevent failures before they occur.

Code-Free & Natural Language Design: AI-based tools will allow engineers to describe designs in natural language and automatically generate models. Voice-assisted CAD software will make designing more intuitive.

Blockchain for Design Security & IP Protection: Blockchain will secure intellectual property (IP) rights by tracking design ownership and modifications.

Robotic Process Automation (RPA) in Design & Manufacturing: CAD software will integrate with RPA to automate routine design tasks, reducing human intervention.

Best regards,

Mr. Sushant Kadam

Dept. of Mech. Engg.

YOUTH DAY CELEBRATION

ARMIET proudly celebrated **National Youth Day** on **12th January 2025** to commemorate the birth anniversary of **Swami Vivekananda**, one of India's most inspiring youth icons and spiritual leaders. The event aimed to motivate students to embrace Swami Vivekananda's ideals of courage, discipline, and dedication toward the betterment of society.

The celebration began with a **traditional lamp-lighting ceremony**, followed by a floral tribute to Swami Vivekananda by the dignitaries, faculty, and student representatives. The Principal, **Dr. Kshitij Pandey**, addressed the gathering and emphasized the relevance of Swami Vivekananda's teachings in today's fast-changing world. He encouraged the youth to strive for excellence while upholding values of service, character, and patriotism.

The highlight of the event was a series of student-led performances and activities, including:

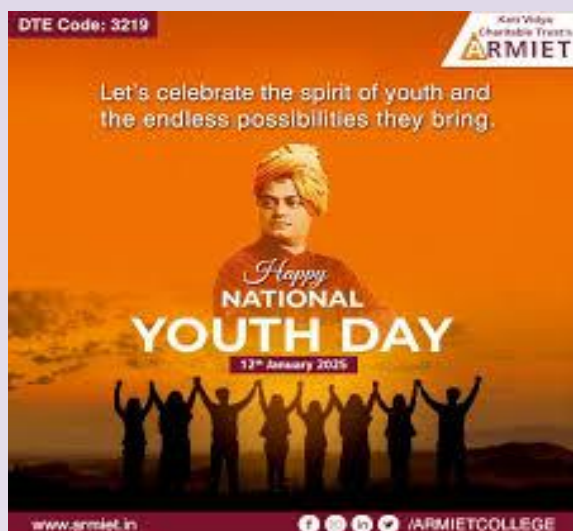
- ❖ Inspirational speeches and presentations on Swami Vivekananda's life and vision
- ❖ Poetry recitations and skits on youth empowerment
- ❖ A motivational talk by a guest speaker on leadership and personal growth
- ❖ Cultural performances showcasing the energy and creativity of ARMIET's young minds

Students also participated in a quiz competition based on Indian youth icons and national history, which was both informative and engaging.

The celebration concluded with a vote of thanks, expressing gratitude to all participants, organizers, and faculty for their efforts in making the event a grand success. Refreshments were distributed, and the spirit of the youth echoed across the campus as the event came to a close.

The day served as a powerful reminder of the strength and potential of India's youth, inspiring students to lead with purpose and passion.

"Arise, awake, and stop not till the goal is reached." – Swami Vivekananda



INDUSTRIAL VISIT TO KRUGER VENTILATION

On 15th January 2025, students of 2nd and 3rd Year, **Department of Mechanical Engineering**, from **Alamuri Ratnamala Institute of Engineering and Technology (ARMIET)** had the enriching opportunity to visit **Kruger Ventilation**, a leading manufacturer of industrial fans and ventilation systems.

The visit was organized with the aim of bridging the gap between theoretical learning and practical applications in the field of industrial ventilation, air handling systems, and mechanical operations. The students were accompanied by faculty members, who guided them throughout the tour. During the visit, students received a comprehensive overview of the company's operations, including:

- ❖ Manufacturing processes of axial and centrifugal fans
- ❖ Quality control and testing mechanisms
- ❖ Use of modern technologies and automation in production
- ❖ Safety measures and sustainable practices in the industry

Experts at Kruger Ventilation also conducted an interactive session, where students asked questions and gained insights into real-world applications of engineering concepts, product design, and industrial workflow. This visit proved to be a highly valuable learning experience, enhancing the students' understanding of industrial systems and providing exposure to current trends and technologies used in the field. The management of Kruger Ventilation was very welcoming and supportive, making the visit both informative and enjoyable. The students expressed their appreciation for this opportunity and looked forward to more such industry interactions.

ARMIET extends sincere gratitude to Kruger Ventilation for hosting the visit and contributing to the academic and professional growth of the students.



76th Republic Day

The 76th Republic Day was celebrated with great patriotic zeal and enthusiasm at Alamuri Ratnamala Institute of Engineering and Technology (ARM IET) on 26th January 2025. The event commenced at 9:00 AM on the college campus, graced by the presence of the Chairman, Mr. A. V. Gupta, along with the I/C Principal, Dr. Prakash Patil faculty members, staff, and students. The celebration began with the flag hoisting ceremony, where Mr. A. V. Gupta proudly unfurled the Indian National Flag, followed by the soulful rendition of the National Anthem, evoking a strong sense of unity and pride among everyone present.

In his speech, Mr. Gupta emphasized the significance of Republic Day and reminded everyone of the values enshrined in the Constitution of India. He encouraged the students to be responsible citizens and contribute actively to the growth of the nation. The event continued with a series of patriotic performances by students, including songs, dances, and skits portraying India's freedom struggle and the importance of unity in diversity. Each performance reflected the passion and respect the students hold for the country.

The I/C Principal, Dr. Prakash Patil, also addressed the gathering, highlighting the role of education in nation-building and the importance of youth in shaping a better future for India. The program concluded with a vote of thanks and the distribution of refreshments. The celebration served as a reminder of India's glorious past, its democratic strength, and the role each citizen plays in building the future. Jai Hind!



FACULTY SPORT

The spirit of sportsmanship and camaraderie was on full display as **Alamuri Ratnamala Institute of Engineering and Technology (ARM IET)** hosted a vibrant and energetic **Faculty Sports Meet** on **17th & 18th January 2025**. Organized by the Sports Committee, the two-day event aimed at promoting physical well-being, teamwork, and relaxation among faculty and staff members. It also served as a refreshing break from academic routines and a chance to connect informally across departments.

The event was inaugurated by **Mr. A. V. Gupta** (Chairman) and **Dr. Kshitij Pandey** (Principal, ARM IET), who highlighted the importance of maintaining a healthy work-life balance and fostering a positive institutional culture through such engaging activities.

A variety of sports and games were organized, including: **Cricket, Badminton, Carrom, Chess, Tug of War, Table Tennis, Fun games and relay races.**

Faculty from different departments enthusiastically participated, showcasing not only their sporting talent but also great team spirit. The friendly competition brought lots of cheer, laughter, and excitement to the campus. Winners and runners-up were felicitated during a closing ceremony on 19th January, where medals and certificates were distributed by the dignitaries. The event concluded with a vote of thanks and a group photo capturing the joyful memories of the event.

“A healthy body leads to a healthy mind!”



INDUSTRIAL VISIT TO ROTORISED AVIATION

On **24th January 2025**, the students of 2nd & 3rd Year, Department of Mechanical Engineering, from **Alamuri Ratnamala Institute of Engineering and Technology (ARMIET)** participated in an insightful industrial visit to **Rotorised Aviation**, located in Khardi, Shahpur.

This visit was designed to offer students practical exposure to aviation technology, aircraft maintenance procedures, and real-world aeronautical engineering practices. Accompanied by faculty members, the students received a warm welcome from the team at Rotorised Aviation.

During the visit, students were introduced to:

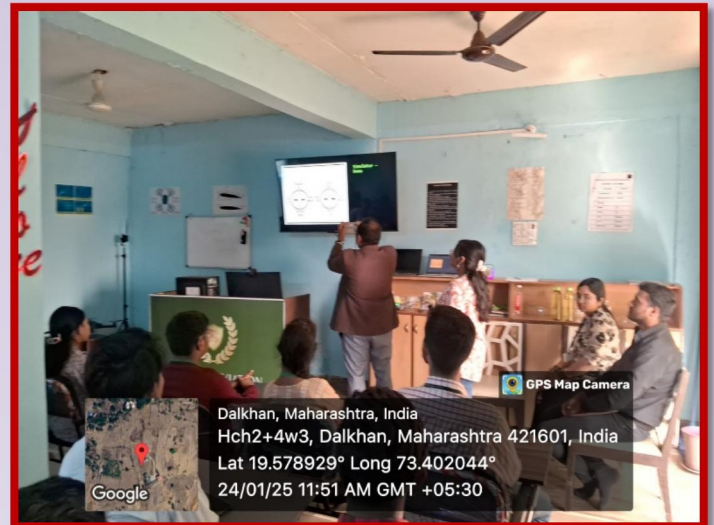
- ❖ Basic components and systems of helicopters and light aircraft
- ❖ Engine functioning, rotor dynamics, and control mechanisms
- ❖ Maintenance hangar operations and safety protocols
- ❖ Insights into aviation careers, pilot training, and aerospace technology

Experts and engineers from Rotorised Aviation conducted live demonstrations and explained various aviation-related processes. An interactive session followed, where students eagerly asked questions about flight principles, aerodynamics, and aviation industry trends.

The visit proved to be a valuable educational experience, strengthening the students' theoretical knowledge with practical insights and igniting a deeper interest in the field of aviation and aerospace engineering.

ARMIET extends heartfelt thanks to the Rotorised Aviation team for their hospitality, and for providing an excellent learning platform for aspiring engineers.

“Learning beyond classrooms – soaring high with knowledge!”



CAMPUS PLACEMENT DRIVE

On 14th February 2025, Alamuri Ratnamala Institute of Engineering and Technology (ARMiet) successfully organized a **Campus Placement Drive** aimed at providing job opportunities to final year students across various departments. The drive was led and coordinated by **Mr. Majid Afsar Hussain, Mr. Suresh Araj & Mr. Mayur Patil**, the institute's dynamic Training & Placement Officer, who has been instrumental in strengthening industry-academia connections.

The event witnessed the participation of multiple reputed companies from diverse sectors such as Information Technology, Core Engineering, Manufacturing, Finance, and Services, offering a wide range of job roles for eligible students.

The placement process included:

- ❖ Pre-placement talks and company presentations
- ❖ Aptitude tests and group discussions
- ❖ Technical and HR interviews

Over 150 students registered for the drive, and a significant number of them successfully secured job offers. The recruiters appreciated the students' preparedness, technical knowledge, and communication skills.

Mr. Majid Afsar Hussain addressed the students, sharing valuable insights into industry expectations and career readiness. He encouraged students to stay focused, adaptable, and continuously upskill to meet the evolving demands of the professional world.

The management and faculty extended their full support, ensuring the smooth execution of the event. The Placement Cell expressed gratitude to all participating companies and congratulated the selected students on their achievements.

The Campus Placement Drive 2025 was a resounding success, reinforcing ARMIET's commitment to empowering students and enhancing their employability.

"Your career begins with opportunity – and we bring it to your campus!"

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SHIVAJI JAYANTI CELEBRATION

With pride, patriotism, and great enthusiasm, **Alamuri Ratnamala Institute of Engineering and Technology (ARM IET)** celebrated the birth anniversary of the legendary **Chhatrapati Shivaji Maharaj** on **19th February 2025**.

The celebration began with a bike rally organized by students and staff, which commenced from the **ARM IET campus** and proceeded to the historic **Mauli Fort** in **Shahapur**. The rally was flagged off in the morning, with participants proudly carrying saffron flags, chanting slogans, and spreading awareness about the ideals and bravery of Shivaji Maharaj. The rally served as a tribute to the great **Maratha Warrior** and symbolized unity, courage, and cultural pride.

Upon reaching Mauli Fort, a special tribute ceremony was held where students and faculty paid homage to Shivaji Maharaj through speeches, traditional music, and patriotic chants. The event highlighted Shivaji Maharaj's contributions to Indian history, his visionary leadership, and his deep respect for justice and people's welfare.

Following the rally and tribute, a Mahaprasad (community meal) was organized at the **ARM IET** campus, where all students, faculty, staff, and local guests were warmly welcomed to share a meal. The atmosphere was filled with devotion, joy, and a strong sense of togetherness.

The event was successfully coordinated by the Student Council, with the guidance and support of faculty members and institute management. It reflected **ARM IET's** commitment to honoring national heroes and promoting cultural values among youth.

Jai Shivaji! Jai Bhavani!

"Let us walk on the path of valor and vision – inspired by Shivaji Maharaj."



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MĀTHRU DEVO BHAVA

On 23rd February 2025, Alamuri Ratnamala Institute of Engineering and Technology (ARMIET) organized a deeply meaningful and culturally vibrant event titled "**Māthru Devo Bhava**", commemorating the birth anniversary of **Shanti Devi Surajmal Bothra**, a revered figure and symbol of grace, strength, and compassion. The occasion also marked the grand celebration of the **Annual Cultural Function of ARMIET**.

The event began with a soulful tribute ceremony to Shanti Devi Surajmal Bothra, honoring her life and legacy. Students, faculty, and dignitaries gathered to express their reverence and gratitude, highlighting the values she stood for love, care, sacrifice, and service to humanity, especially through the role of a mother.

The celebration was graced by the presence of **Mr. A. V. Gupta** (Chairman, ARMIET) & **Dr. L. S. Bothra** (Founder Turstee & Campus Director, ARMIET), members of the management, principal, and esteemed guests. Speeches and heartfelt messages were shared, remembering her noble life and encouraging students to uphold moral values and respect for parents, especially mothers, as reflected in the theme "**Māthru Devo Bhava**" – Mother is God.

Following the tribute, the Annual Cultural Function unfolded with vibrant energy, creativity, and talent. The stage came alive with a variety of performances by students including:

- ❖ Traditional and contemporary dances
- ❖ Musical performances (solo and group singing)
- ❖ Drama and skits portraying social messages and historical themes
- ❖ Fashion show, poetry, and mimicry acts

Each performance radiated the spirit of unity, creativity, and celebration. The cultural evening was not only a platform for artistic expression but also a reflection of ARMIET's rich cultural ethos and inclusive spirit.

The event concluded with the felicitation of student achievers, a vote of thanks, and distribution of refreshments & gifts to all the students and their mothers, leaving behind beautiful memories and a renewed sense of respect for maternal love and cultural roots.

"A mother's love is the foundation of all values – and culture is its celebration."

Jai Hind!



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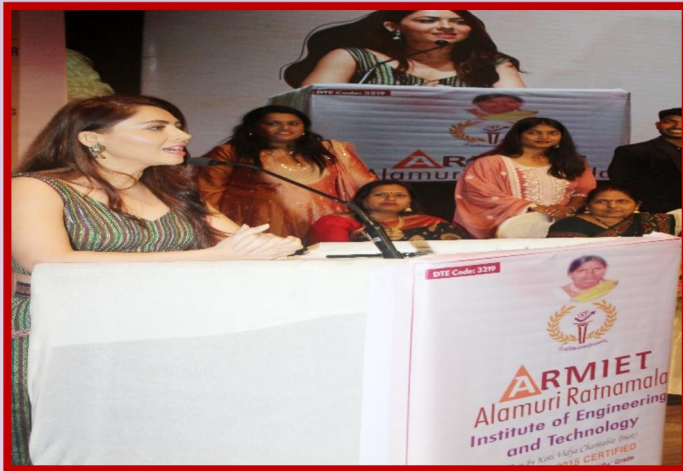
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IEDSSA SPORTS – CHESS & CARROM CHAMPIONSHIP 2025

The **Inter-Engineering Diploma Students Sports Association (IEDSSA)** proudly hosted an intense and exciting Chess and Carrom Championship on 1st February 2025 at ARMIET. The event brought together sharp minds and steady hands from various colleges, all set to compete in a spirit of sportsmanship and strategy.

Chess Championship Highlights:

The Chess competition saw students from multiple polytechnic colleges showcasing their intellectual prowess and tactical mastery on the board. Each round was a battle of brains, with participants carefully planning moves to outwit their opponents.

Participants: Over 140 students from across different zones

Categories: Individual (Boys & Girls) and Team Events

Winners:

- ❖ A.R. KALSEKAR POLYTECHNIC, NEW PANVEL – 1st Place
- ❖ AGNEL POLYTECHNIC, VASHI – 2nd Place

Carrom Championship Highlights:

The Carrom tournament was equally gripping, filled with precision shots, competitive rallies, and remarkable displays of control and strategy. Singles and doubles matches kept the audience engaged throughout the day.

Participants: 120+ players

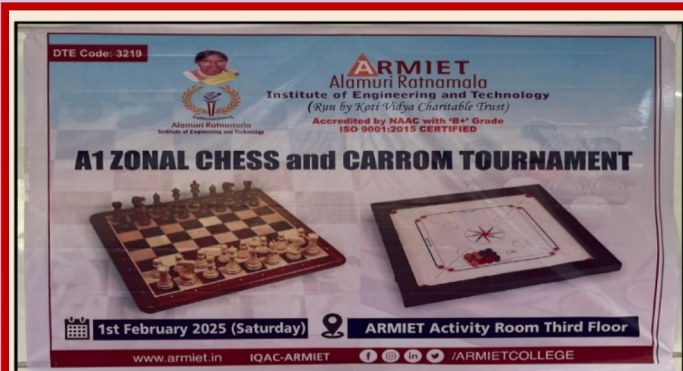
Categories: Singles & Doubles (Boys & Girls)

Winners:

- ❖ A.R. KALSEKAR POLYTECHNIC, NEW PANVEL – 1st Place
- ❖ GOVERNMENT POLY, THANE – 2nd Place

Sportsmanship and Coordination:

The event was flawlessly coordinated by ARMIET, with commendable arrangements in terms of venue, logistics, and refreshments. The organizing committee ensured a smooth schedule and fair gameplay with the help of qualified referees and volunteers.



**A1 Zonal Chess & Carrom
Tournament**



CAREER GUIDANCE AND SOFT SKILLS TRAINING BY ADANI SKILL DEVELOPMENT CENTRE (ASDC) IN COLLABORATION WITH NATIONAL SKILL DEVELOPMENT CORPORATION (NSDC)

In a dynamic effort to empower students with future-ready skills, the Adani Skill Development Centre (ASDC), in collaboration with the National Skill Development Corporation (NSDC), conducted an impactful Career Guidance and Soft Skills Training Program on 15th February 2025 at ARMIET's Auditorium Hall.

The event, skillfully hosted by Mr. Majid Afsar Hussain, brought together students, educators, and industry professionals to explore the intersection of communication, technology, and career preparedness.

1. Soft Skills Training - The Foundation of Professional Success

The session began with a hands-on Soft Skills Workshop aimed at improving participants' communication, confidence, and workplace etiquette. Key topics included:

- ❖ Verbal and non-verbal communication
- ❖ Presentation skills
- ❖ Time management and goal setting
- ❖ Leadership and team collaboration

Interactive activities and role-playing exercises made the session both educational and engaging.

2. Artificial Intelligence – Understanding the Future

Participants were introduced to the world of Artificial Intelligence through an informative and thought-provoking session that covered:

- ❖ The basics of AI and its practical applications
- ❖ The growing role of AI in everyday life and industry
- ❖ Career paths and upskilling opportunities in AI

Students left the session with a clearer understanding of how AI is shaping the future and how they can be a part of it.

3. Virtual Reality Training - Learn by Experiencing

The program featured an immersive Virtual Reality (VR) training module that provided participants with a hands-on experience in a simulated, yet highly realistic, learning environment. Activities included:

- ❖ Safety training simulations
- ❖ Industry-specific skill demonstrations
- ❖ Real-time virtual interaction with equipment and scenarios

This modern approach to training provided an engaging, risk-free space to develop practical skills in an innovative format.

CAREER GUIDANCE AND SOFT SKILLS TRAINING BY ADANI SKILL DEVELOPMENT CENTRE (ASDC) IN COLLABORATION WITH NATIONAL SKILL DEVELOPMENT CORPORATION (NSDC)

The event was met with enthusiastic participation and positive feedback. Many attendees expressed that the combination of traditional soft skills and modern technologies like AI and VR gave them valuable insights into both personal and professional growth.

“This training helped me boost my confidence and also opened my eyes to career possibilities in tech-driven fields,” shared one student.

The ASDC, along with NSDC, continues to pioneer efforts in bridging the skill gap among youth through forward-thinking, inclusive programs. This initiative at ARM IET marked yet another successful milestone in building a workforce ready for the future.



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EXPERT LECTURE ON MICRO CONTROLLER IN WIRELESS SENSOR NETWORK

The **Department of Electronics and Telecommunication Engineering** at **ARMIET** successfully organized an Expert Lecture on “**Microcontroller in Wireless Sensor Networks**” on **11th March 2025** at the Auditorium Hall. The session was graced by the presence of the distinguished resource person, **Dr. Sanjay Singh Thakur**, a renowned academician and expert in embedded systems and wireless communication.

The primary objective of the lecture was to enhance students' knowledge and understanding of how microcontrollers serve as the backbone of Wireless Sensor Networks (WSNs) in modern-day applications, especially within the Internet of Things (IoT) ecosystem. Dr. Thakur delivered a highly informative and interactive session, covering a wide range of topics such as:

- ❖ Overview of Wireless Sensor Networks (WSNs)
- ❖ Microcontroller architecture and its role in WSN nodes
- ❖ Power management and optimization in embedded systems
- ❖ Communication protocols used in sensor networks
- ❖ Real-time applications of WSNs in smart cities, agriculture, healthcare, and environmental monitoring

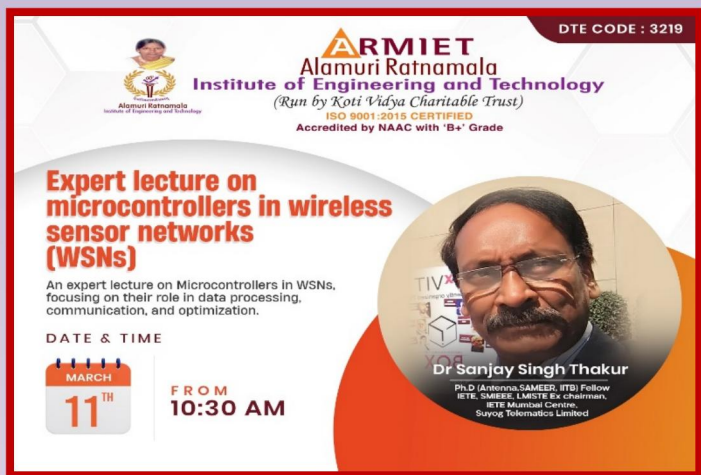
Through case studies and real-world examples, Dr. Thakur highlighted how microcontrollers are utilized to collect, process, and transmit data in sensor networks with efficiency and accuracy.

The lecture witnessed enthusiastic participation from undergraduate and postgraduate students, who engaged actively in the Q&A session. Their curiosity and interest in the domain of WSNs and embedded systems were evident through insightful queries and discussions.

“Dr. Thakur’s session gave me a new perspective on how microcontrollers are pivotal in the IoT revolution. I feel more confident about exploring projects in this field,” remarked one of the participants.

The session concluded with a vote of thanks presented by Mr. Majid Afsar Hussain, expressing gratitude to Dr. Sanjay Singh Thakur for his valuable insights and time. A token of appreciation was presented as a gesture of honor.

This expert lecture added great value to the academic environment of ARMIET, inspiring students to delve deeper into emerging technologies and hands-on innovation.



ARM IET
Alamuri Ratnamala
Institute of Engineering and Technology
(Run by Koti Vidya Charitable Trust)
ISO 9001:2015 CERTIFIED
Accredited by NAAC with 'B+' Grade

Expert lecture on microcontrollers in wireless sensor networks (WSNs)

An expert lecture on Microcontrollers in WSNs, focusing on their role in data processing, communication, and optimization.

DATE & TIME

MARCH 11TH

FROM 10:30 AM

Dr. Sanjay Singh Thakur
Ph.D. (Antenna, SAMEER, IITB) Fellow
MTE, SAMEER, LMISTE Ex-chairman,
MTE Mumbai Centre,
Suyog Telematics Limited

DTE CODE : 3219



EXPERT LECTURE ON MICRO CONTROLLER IN WIRELESS SENSOR NETWORK



PERSONALITY DEVELOPMENT SESSION

To empower students with essential life and career skills, **ARM IET** organized an enriching **Personality Development Session** on **12th March 2025** at the **Auditorium Hall, ARM IET**. The session was conducted by the eminent motivational speaker and trainer, **Dr. Dinesh Gupta**, and was hosted and coordinated by **Mr. Majid Afsar Hussain**.

Dr. Gupta, with his dynamic and engaging style, delivered an inspiring talk focusing on the holistic development of an individual's personality. The session aimed to boost students' self-confidence, communication skills, and professional presence qualities crucial for both personal growth and career success.

Highlights of the Session:

- ❖ Importance of a positive attitude and self-image
- ❖ Effective verbal and non-verbal communication
- ❖ Goal setting and time management
- ❖ Handling stress and building emotional intelligence
- ❖ Grooming, etiquette, and presentation skills

Interactive exercises, real-life anecdotes, and motivational stories made the session lively and impactful. Students actively participated in group activities and shared their experiences, making it an engaging and thought-provoking event.

The session was highly appreciated by students from various disciplines who felt more inspired and better equipped to face interviews, workplace challenges, and everyday interactions with greater confidence.

“Dr. Dinesh Gupta's talk helped me identify my strengths and reminded me that personal development is a lifelong journey,” shared by the participant.

The event concluded with a heartfelt vote of thanks delivered by Mr. Majid Afsar Hussain, who appreciated Dr. Dinesh Gupta's valuable insights and efforts. A memento was presented as a token of gratitude and appreciation.

This Personality Development session added great value to the holistic education approach at **ARM IET**, encouraging students to become not just skilled professionals but also confident individuals.

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Personality Development Session
Designed to help you enhance your confidence, communication skills, and overall personal growth

DATE & TIME
MARCH 12TH FROM 10:30 AM

Dr. Dinesh Gupta

DTE CODE : 3219



INTERDEPARTMENTAL QUIZ COMPETITION AT ARMIET

The spirit of curiosity and intellectual enthusiasm was on full display at **ARMIET** during the **Quiz Competition** held on **21st March 2025**. The event was organized to promote critical thinking, teamwork, and general awareness among students across all departments.

The Quiz Competition aimed to enhance the students' knowledge across various domains including:

- ❖ General Knowledge
- ❖ Current Affairs
- ❖ Science & Technology
- ❖ History and Culture
- ❖ Logical Reasoning and Aptitude

The competition was held in multiple rounds:

- ❖ Preliminary Written Round - To shortlist the top teams
- ❖ Rapid Fire Round - Testing speed and accuracy
- ❖ Visual Round - Questions based on images and logos
- ❖ Final Buzzer Round - High-stakes, fast-paced challenge

Teams from various departments enthusiastically participated, showcasing their sharp intellect and quick thinking.

After a thrilling finale, the top three teams were declared winners and awarded with certificates and trophies. All participants received appreciation certificates for their enthusiastic involvement.

“The quiz was intense but fun! It helped me realize the importance of staying updated and thinking on my feet,” shared one of the finalists.

The event concluded with a vote of thanks and a message encouraging students to continue their pursuit of knowledge beyond the classroom. The success of the Quiz Competition reflected **ARMIET's** commitment to fostering academic excellence and competitive spirit among its students.



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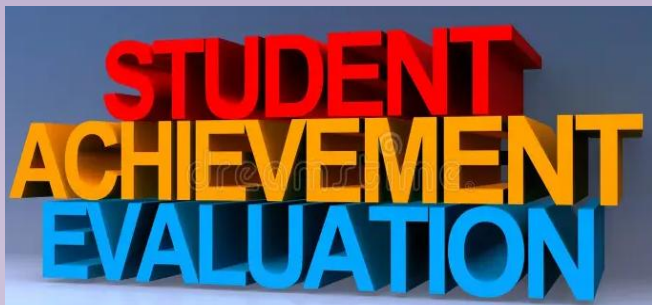




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FACULTY PROFILE AND ACHIEVEMENTS



Students Achievements:

THIRD YEAR DIPLOMA MECHANICAL (SEM 5)

SR. NO.	NAME OF STUDENT	PERCENTAGE
1		
2		
3		
4		
5		

SECOND YEAR DIPLOMA MECHANICAL (SEM 3)

SR. NO.	NAME OF STUDENT	PERCENTAGE
1		
2		
3		
4		
5		

FIRST YEAR DIPLOMA MECHANICAL (SEM 1)

SR. NO.	NAME OF STUDENT	PERCENTAGE
1		
2		
3		
4		
5		



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Faculty Profile and Achievements:



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THANK YOU

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