

# MIECHONS'23

2023 Edition

A detailed illustration of a man in a denim shirt and jeans sitting on a complex arrangement of interlocking gears of various sizes and colors (silver, gold, and brown). Another man is visible at the bottom of the gear structure, appearing to be working on it. The background is white, and the entire scene is set against a large, stylized graphic of purple and gold curved bands on the left side of the page.

**Annual Magazine  
Department of  
Mechanical Engineering**

# VISION & MISSION

## **VISION OF THE DEPARTMENT**

To produce mechanical engineering graduates with high standards, and making them as committed professionals with ethical values.

## **MISSION OF THE DEPARTMENT**

**DM1:** To impart quality technical education and to compete successfully in today's Industrial requirements.

**DM2:** To develop the professional potential that leads to pursue research and higher studies.

**DM3:** To improve and sustain the professional behaviour and ethical values.

## **Program Educational Objectives – PEOs**

**PEO I:** Graduates shall excel in the field of design, thermal, materials and manufacturing, as successful engineers or researchers or as entrepreneurs.

**PEO II:** Graduates will analyze problems, design solutions and develop products as a team member in advanced industrial projects.

**PEO III:** Graduates shall have professional ethics, team spirit, life-long learning, good oral and written communication skills and adopt corporate culture, core values and leadership skills.

## **Program Specific Outcomes – PSOs**

**PSO1:** Professional skills: Students shall understand, analyze, design and develop integrated equipment, thermal devices and composite components manufacturing.

**PSO2:** Competency: Students shall qualify at the State, National and International level competitive examination for employment, higher studies and research.

# Program Outcomes - POs

**PO1: Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

**PO2: Problem analysis:** Identify, formulate, review research literature, and analyse complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

**PO3: Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

**PO4: Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

**PO5: Modern tool usage:** Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modelling to complex engineering activities with an understanding of the limitations.

**PO6: The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

**PO7: Environment and sustainability:** Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

**PO8: Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

**PO9: Individual and team work:** Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

**PO10: Communication:** Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

**PO11: Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

**PO12: Life-long learning:** Recognize the need for, and have the preparation and ability to engage in independent and life-long learning in the broadest context of technological change.

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# CHAIRMAN MESSAGE



## Wishes From the Founder

Dear Friends,

DMI and MMI are Congregations of Catholic Religious Sisters and Priests known for their service to humanity in many parts of the world.

Self respect through Self sustenance, Self sustenance through Capacity building, Capacity building through knowledge based technical skills, knowledge based technical skill towards respectable employment, and respectable employment towards the realization of one's ability to market one's own ideas, skills and products is our vision for those whom we serve.

To groom well disciplined, humanly motivated, intellectually enlightened, technically oriented citizens with stamina built in to face the changing world and a committed and strong spiritual base is our goal.

All our educational and developmental services are oriented towards this goal which is to be achieved through the collective effort of consecrated Religious, committed collaborators, dedicated staff, receptive students and all others concerned.

We pray and hope that every person who passes through our hands is nourished and enriched in every way, not only to face the future but also to shape his or her own future and that of our country and the universe.

**May God bless you**

**Rev. Fr. Dr. J. E. Arul Raj**  
Founder and Chairman

## CORRESPONDENT MESSAGE



Greetings !

to involve DMICE is a warm and welcoming learning community, committed to creating the best possible educational experience for every Student. We aim to enable all students to reach their full potential.

We have a talented, dedicated, caring team of staff, each of whom works very hard to ensure that the abilities of the Students in our care are nurtured and carefully developed. Our Faculty and teaching assistants are experienced, and work as a team to make the College a very special place, every day, for your child.

At DMICE we aim to provide a broad, well balanced and relevant curriculum. We encourage positive social behavior, emphasizing respect for others. We believe that every Student has the right to work in a calm, orderly, safe and secure environment. We value every student and have the highest possible expectations in the areas of achievement and behavior. DMICE provides a stimulating and enriched environment so that the students can enjoy all aspects of their learning. We value regular contact with parents/ guardians, and regard the home-school partnership as an essential part of the education process. We are always looking for new ways parents in the life of the school and to keep them informed of the things we are doing.

Wishing you all the very best .....

**Rev. Sr. M. K. TERESA, M.A., M.Phil.,**

Correspondent,

DMICE.

## ADMINISTRATOR MESSAGE



### **Blessings to All,**

“Now a days human learning process has been passing through tremendous changes. Changes can be seen as evolutionary and dynamic with an emphasis on continuous learning and adaptation”.

DMICE has a good reputation in the field of education around CHENNAI and nearby places. This center of learning concentrates on overall development of the students and to connect them to the rest of the world. Our aim is to help the students to develop their potential academically, socially, emotionally, physically, morally, spiritually and aesthetically.

We create a challenging learning environment that encourages high expectations for success. Our college promotes a safe, clean, calm, orderly, caring and supportive environment free from all distractions of the city. We are providing all academic excellence with very good laboratory and library.

Students are encouraged to meet all the challenges with openness, enthusiasm and capacity to force and solve problems. The staff of the college is well qualified, experienced and committed. We welcome all students who are looking forward for their bright future.

**Rev. Sr. P. Pratheepa**  
Administrator, DMICE

# PRINCIPAL MESSAGE



**Dear Readers,**

The success story of any Institution or any individual is a gradual growth of every single step that is kept that makes a giant leap of achievement....

To watch the graph ascend really makes me privileged...

‘Catch them young’ is a popular phrase that emphasizes that right education should be given at the right time to make a living...

Education is an investment that would give returns in proportion to the value added....DMI believes in value based education of high standard in order to ensure that every product of DMI is well organized by the industry. We not only groom our students to become excellent engineers but also equip with interpersonal skills to work in corporate and companies...

The responsibility that is taken by the Staff members to every individual student is fruitful. They are the second parents who care and share for the wellbeing of the student community...

A spark makes a flame...

A flame lights a candle...

A candle enlightens many ...

A flame flames into a blaze ..

A blaze ends a forest fire...

DMI kindles the sparks of knowledge and spreads its name and fame for years to come...

**Dr.N.AZHAGESAN, M.Tech, Ph.D.**

Principal,  
DMI College of Engineering.

# HOD MESSAGE



**We`lcome to the Department of Mechanical Engineering !**

Mechanical engineers have an important role to play in practically every industry; be it automotive, aerospace, chemical, process or electronics. Be it sports, medical or any product development; mechanical engineers contribute to it substantially.

Mechanical engineers deal with thermal and fluid science, material science, design, manufacturing and maintenance of products, systems and processes over entire product life cycle. In today`s world, role of mechanical engineer has expanded from conventional design and manufacturing job to offering solutions to complex interdisciplinary problems.

Mechanical engineers deal with thermal and fluid science, material science, design, manufacturing and maintenance of products, systems and processes over entire product life cycle. In today`s world, role of mechanical engineer has expanded from conventional design and manufacturing job to offering solutions to complex interdisciplinary problems. Mechanical engineers have to form and lead professional teams across the globe to achieve this. We at DMICE of Mechanical Engineering strive to imbibe in our students the skills needed in these stupendous tasks.

**Dr.V.N.ANBAZHAGAN**

Head OF the Department,  
Mechanical Engineering

## ABOUT THE DEPARTMENT

The Department of Mechanical Engineering is established as a full-fledged department offering B.E course from the year 2009 with an intake of 60 and in the year 2012 intake has been increased to 120 and from 2014 onwards the intake is 180 students.

The Department has excellent infrastructure facilities in keeping with latest trends and requirements and well reputed faculty members. It aims at preparing the students to face the challenge of the materially-conscious and technologically fast-developing world. It means to transform the students into young engineers with sound technical knowledge, leadership skills and decision-making abilities. This preparation results from the discipline and commitment of the students, leadership of the management and distinction of the faculty.

The Department periodically conducts Guest lectures, Industrial visits, Symposiums, Seminars etc. through its parent body “**Association of Radiant Mechanical Youngsters (ARMY)**” for the benefit of students. The efforts of our committed faculty members are really towards producing the students with excellence in knowledge and character. The department periodically organizes conferences,

FDPs, workshops, hands-on training and value added courses in coordination with AICTE, ISTE, Anna University, SAE, TEDA and reputed industries etc., for the benefit of both the academic and industrial community.

The department has recently installed 3D Printing Facility which is a recent technology in manufacturing. Ours is one among few colleges which is having such a facility.

Industrial visits and internships are arranged every year for the benefit of our students in some of the following industries.

- Mitsubishi heavy Industries Ltd, Ranipet.
- Hinduja Foundries
- Chennai Fort Trust
- North Chennai Power Plant
- Delphi TVS
- Rane TRW
- Brakes India and etc.

Our Students are placed in reputed industries every year through on and off campus placement drives, some of the core companies are,

- Hero Motors
- Mercury fittings
- SMR Industry
- Veltech Industries
- Indian Navy
- Boston India Pvt Ltd
- Avalon Technologies
- Petrofac
- Maruti Suzuki
- L&T
- Hyundai and etc.

## Guest Lecture

### ENGINEERING MATERIALS AND METALLURGY

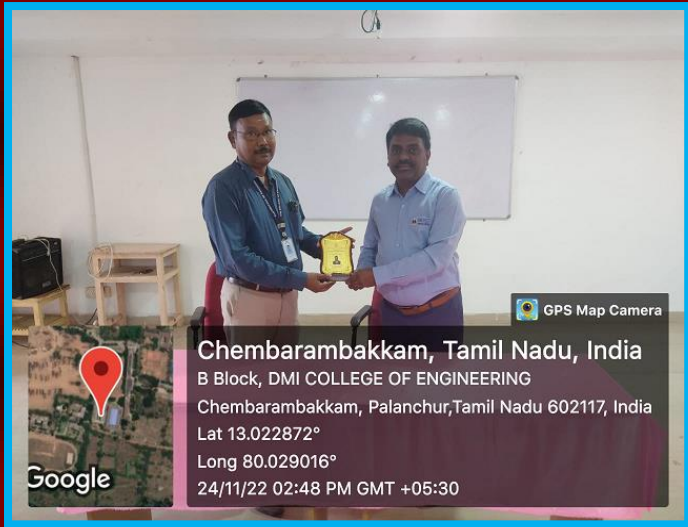


**DMI COLLEGE OF ENGINEERING**  
DEPARTMENT OF MECHANICAL ENGINEERING  
ORGANIZES A GUEST LECTURE ON  
**ME 3392- ENGINEERING MATERIALS AND METALLURGY**  
RESOURCE PERSON  
**Dr.S. Mohamed Abbas**  
Head., Research & Developments, HOIST Industries, Chennai.

<b>Rev.Sr.M.K. TERESA</b> CORRESPONDENT	<b>Rev.Sr.P.PRADEEBA</b> ADMINISTRATOR	<b>Dr.N. AZHAGESAN</b> PRINCIPAL
<b>Dr.V.N. ANBAZHAGAN</b> HOD-MECH	<b>Mr.S. RAJAMAHENDRAN</b> CO-ORDINATOR	

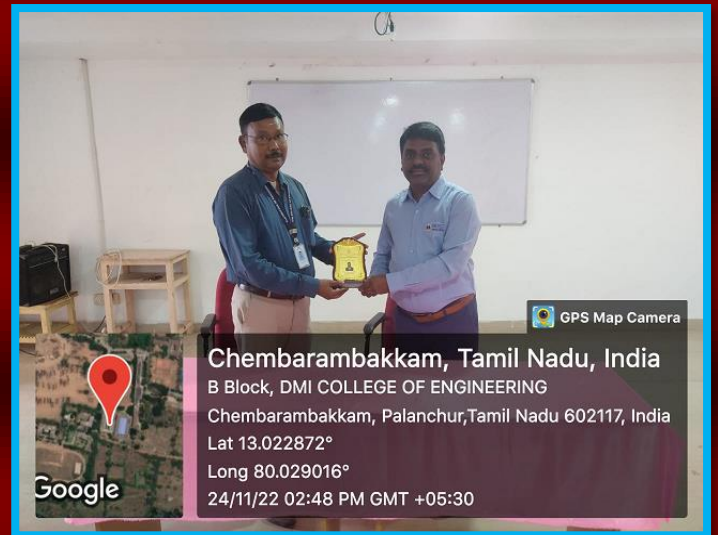
**Date: 24/11/2022-Thursday**  
**Time: 1:10 PM**  
**Venue: Dept. Seminar Hall**

A Guest Lecture on the subject **ME 3392 – Engineering Materials and Metallurgy** was held on **24/11/2022** for the second-year Mechanical Engineering students. The session took place in the **Department Seminar Hall** and covered advanced topics in materials science, focusing on metallurgical properties, applications, and modern advancements. The lecture provided a comprehensive understanding of engineering materials and their significance in mechanical design and manufacturing processes. Students enthusiastically participated, gaining valuable insights to complement their academic curriculum. The event concluded with an interactive Q&A session, fostering curiosity and deeper learning.



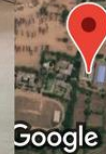
GPS Map Camera

**Chembarambakkam, Tamil Nadu, India**  
B Block, DMI COLLEGE OF ENGINEERING  
Chembarambakkam, Palanchur,Tamil Nadu 602117, India  
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Long 80.029016°  
24/11/22 02:48 PM GMT +05:30



GPS Map Camera

**Chembarambakkam, Tamil Nadu, India**  
B Block, DMI COLLEGE OF ENGINEERING  
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# RANKINE CYCLE AND ITS IMPROVISANTION



**DMI COLLEGE OF ENGINEERING**  
APPROVED BY ACITE / ACCREDITED BY NBA  
AFFILIATED TO ANNA UNIVERSITY/ISO CERTIFIED  
INSTITUTE  
PALANCHUR 600 123

DEPARTMENT OF MECHANICAL ENGINEERING  
ORGANIZE  
GUEST LECTURE  
ON  
**RANKINE CYCLE AND ITS  
IMPROVISANTION**  
RESOURCE PERSON  
**Dr.G.HARIHARAN**  
ASSISTANT PROFESSOR  
MECHANICAL DEPARTMENT  
UCE-PANRUTI



WEDNESDAY 27 SEP 2022  
TIME : 10.00AM

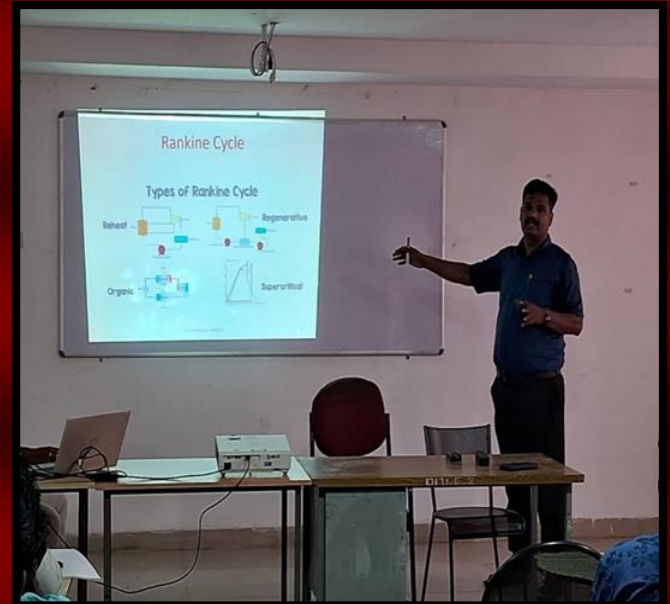
CO-ORDINATOR  
Mr.M.SENTHIL KUMARAN

Dr.AMALA MITHIN MINTHER SINGH  
HOD/MECH

Rev.Sr.M.K.TERESA  
CORRESPONDENT

Dr.N.AZHAGESAN  
PRINCIPAL

Rev.Sr.P.PRADEEBA  
ADMINISTRATOR



The Department of Mechanical Engineering at DMI College of Engineering hosted a guest lecture on "Rankine Cycle and Its Improvisation" on 27th September 2022 at 10:00 AM. The session was conducted by Dr. G. Hariharan N, an Assistant Professor from the Mechanical Department, who discussed the principles of the Rankine Cycle and methods to optimize its performance. The event was coordinated by Mr. M. Senthil Kumaran and Dr. A Amala Mithin Minther Singh. Aimed at students and faculty, the lecture provided valuable insights into thermal engineering advancements, focusing on efficiency improvements and practical applications in mechanical systems. The program fostered academic learning and industry-relevant knowledge.

## Seminar on Rheology Simulation In Plastic Industry

**DMI COLLEGE OF ENGINEERING**  
**CHENNAI-123**  
Affiliated to Anna University, Approved by AICTE, Accredited by NBA

**DEPARTMENT OF MECHANICAL ENGINEERING**

Organize Program On

**Rheology Simulation  
In  
Plastic Industry**

Resource Person

**Mr.D.Inbasudhahar**  
Deputy Manager - Rheology Simulation  
Valeo India PVT LTD at Chennai

DATE : 17/08/2022  
VENUE : Seminar Hall

REV.SR.M.K.TERASA  
Correspondent

REV.Sr.P.PRADEEBA  
Administrator

Dr.N.AZHAGESAN  
Principal

Dr.V.N.ANBAZHAGAN  
HOD/MECH

Mr.R.VENKATESH  
Coordinator

A

seminar on "Rheology Simulation in the Plastic Industry" was organized on **17.08.2022** for the Mechanical Engineering students to enhance their understanding of material flow behavior in polymer processing. The session was conducted by industry experts, providing insights into advanced simulation techniques and their applications in designing efficient molds and products. Students actively participated, gaining valuable knowledge on optimizing production processes. The event highlighted real-world challenges and innovative solutions in the plastic industry. It concluded with an interactive Q&A session, inspiring students towards research and development in this domain.



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B Block, DMI COLLEGE OF EDUCATION, Chembarambakkam, Tamil Nadu 602117, India  
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Long 80.028948°  
17/08/22 11:44 AM



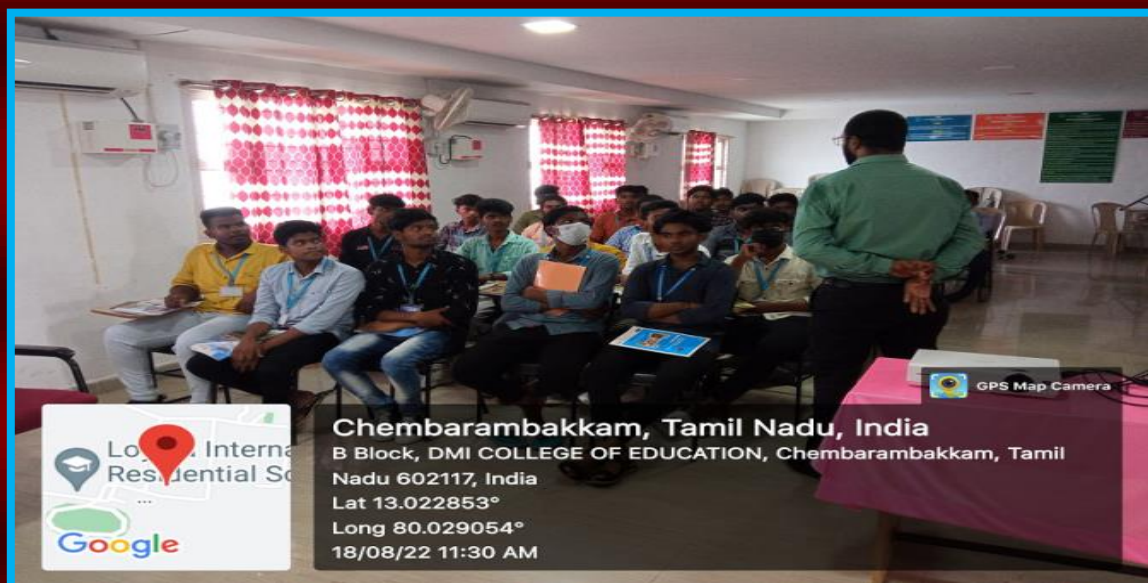
**POCO**  
SHOT ON POCO M2



**Chembarambakkam, Tamil Nadu, India**  
B Block, DMI COLLEGE OF EDUCATION, Chembarambakkam, Tamil Nadu 602117, India  
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Long 80.028996°  
17/08/22 11:16 AM

# SEMINAR ON DESIGN AND PRODUCT DEVELOPMENT

A seminar on "**Design and Product Development**" was conducted for the third-year Mechanical Engineering students on 18-8-2022. The resource person, **Mr. M. Balasubramaniam**, from **Diagonal CADD**, shared his expertise on modern design methodologies and innovative product development strategies. The session emphasized the practical application of CAD tools and real-world case studies, providing students with valuable insights into the industry standards. Students actively engaged in discussions and gained a deeper understanding of the integration of design thinking in product lifecycle management. The seminar concluded with a Q&A session, inspiring the participants towards excellence in design engineering.



# SEMINAR

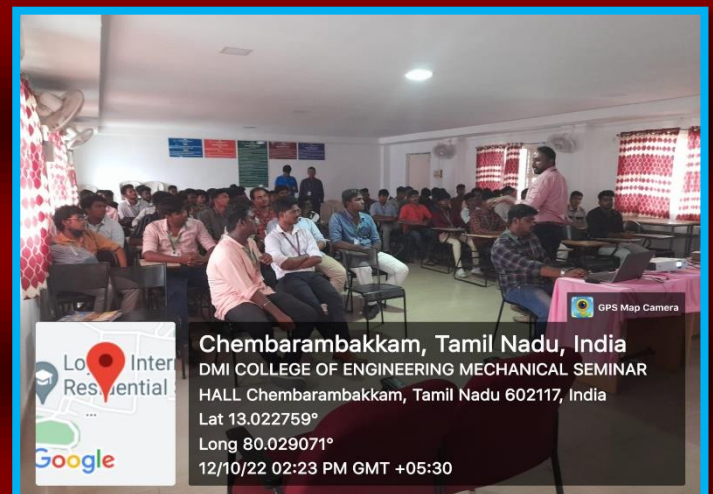
## ADVANCED SOFTWARES FOR MANUFACTURING

The Department of Mechanical Engineering organized a seminar on "**Advanced Software for Manufacturing**" on 12/10/2022 for the final-year students. The session was led by **Mr. Galdwin Immanuel, M.E**, a distinguished expert from the **Tamil Nadu Centre of Excellence for Advanced Manufacturing, TIDCO**. The seminar aimed to bridge the gap between academic learning and the latest technological advancements in the manufacturing industry.

Mr. Galdwin Immanuel provided an in-depth overview of various advanced software tools used in modern manufacturing processes. He discussed the role of software in enhancing precision, efficiency, and productivity in industries, covering aspects such as digital manufacturing, computer-aided design (CAD), computer-aided manufacturing (CAM), and simulation tools. The session also delved into the integration of automation technologies with manufacturing systems, highlighting their importance in achieving Industry 4.0 standards.

Real-world examples and case studies were presented to demonstrate the practical applications of these tools, enabling students to understand how software is utilized to solve complex manufacturing challenges. The seminar also emphasized the importance of adopting these technologies to stay competitive in the rapidly evolving industrial landscape.

The students showed great enthusiasm and actively participated in the session, posing insightful questions during the interactive Q&A session. This engagement not only clarified their doubts but also encouraged them to explore advanced manufacturing technologies further



# SEMINAR ON ADVANCED SOFTWARES FOR MANUFACTURING



The Department of Mechanical Engineering, DMI College of Engineering, organized a seminar on “*Advanced Softwares for Manufacturing*” on **12th October 2022** at the Mechanical Seminar Hall, Chembarmakkam, Tamil Nadu. The resource person for the session was **Mr. Galdwin Immanuel, M.E.**, from the **Tamil Nadu Centre of Excellence for Advanced Manufacturing, TIDCO**. The seminar was primarily attended by the **final year Mechanical Engineering students**, aiming to bridge the gap between academic learning and industrial applications in modern manufacturing technologies.

During the session, Mr. Immanuel highlighted the critical role of advanced software tools in enhancing design accuracy, productivity, and efficiency in manufacturing industries. He introduced the students to cutting-edge software applications used in areas such as product design, simulation, digital manufacturing, and process optimization. Emphasis was placed on how these tools contribute to reducing defects, minimizing waste, and ensuring precision in modern production systems.

The interactive seminar also shed light on the importance of integrating digital technologies with traditional manufacturing methods to prepare students for Industry 4.0 requirements. Students gained practical insights into how industries leverage software for real-time monitoring, automation, and sustainable manufacturing practices.

The program provided a valuable platform for students to update themselves with the latest trends and technological advancements, motivating them to enhance their technical skills and employability. The seminar concluded with a question-and-answer session, where students actively interacted with the speaker and clarified their queries.

Overall, the event was highly informative and enriching, successfully meeting its objective of exposing students to advanced manufacturing software applications.

# SEMINAR ON DESIGN AND PRODUCT DEVELOPMENT IN DIAGONOL CADD



The Department of Mechanical Engineering, DMI College of Engineering, organized a seminar on “*Design and Product Development*” exclusively for the **third-year Mechanical Engineering students**. The seminar was conducted by **Mr. M. Balasubramaniam** from **Diagonal CADD**, a reputed institution known for its expertise in design and CAD-based training.

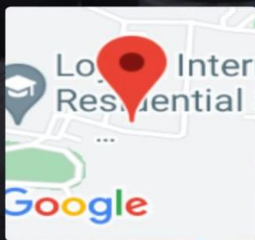
The objective of the seminar was to provide students with insights into modern design methodologies and the significance of product development in the current industrial scenario. The resource person emphasized the importance of creativity, innovation, and technical knowledge in transforming ideas into real-world products.

Mr. Balasubramaniam introduced students to key stages of product development, including **conceptual design, CAD modeling, prototyping, testing, and manufacturing**. He highlighted how software tools like CAD, CAM, and CAE play a vital role in achieving precision and efficiency in product development. Special emphasis was placed on the integration of design thinking with industrial requirements, ensuring products meet both functional and customer needs.

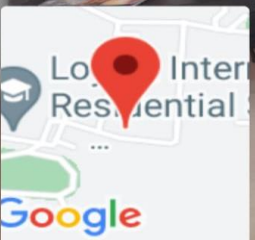
The seminar also shed light on industry practices such as **reverse engineering, simulation, and optimization techniques**, which help engineers reduce time and cost in the product development cycle. Through practical examples, the speaker demonstrated how industries use advanced tools to bring innovation to market faster.

The interactive session concluded with a **Q&A**, where students clarified their queries regarding design careers, industrial applications, and future opportunities in product development. The program enriched students’ knowledge, enhanced their design perspective, and motivated them to adopt innovative approaches in their academic projects and future careers.

# SEMINAR ON ADVANCED SOFTWARES FOR MANUFACTURING



**Chembarambakkam, Tamil Nadu, India**  
DMI COLLEGE OF ENGINEERING MECHANICAL SEMINAR  
HALL Chembarambakkam, Tamil Nadu 602117, India  
Lat 13.022759°  
Long 80.029071°  
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**Chembarambakkam, Tamil Nadu, India**  
DMI COLLEGE OF ENGINEERING MECHANICAL SEMINAR  
HALL Chembarambakkam, Tamil Nadu 602117, India  
Lat 13.022759°  
Long 80.029071°  
12/10/22 02:23 PM GMT +05:30

The Department of Mechanical Engineering, DMI College of Engineering, organized a seminar on “*Advanced Softwares for Manufacturing*” on **12th October 2022** at the Mechanical Seminar Hall, Chembarmbakkam, Tamil Nadu. The session was conducted by **Mr. Galdwin Immanuel, M.E.**, from the **Tamil Nadu Centre of Excellence for Advanced Manufacturing, TIDCO**. The seminar was designed for the **final-year Mechanical Engineering students**, providing them with practical exposure to the latest industrial practices in manufacturing.


The objective of the seminar was to familiarize students with the role of advanced software in modern industries and its contribution to efficiency, quality, and precision. The resource person introduced students to various software applications widely used in **product design, digital manufacturing, simulation, and process optimization**. He explained how industries increasingly rely on these tools to achieve **zero defects, reduced waste, and cost-effective production**.

Mr. Immanuel also highlighted the importance of integrating digital technologies with conventional manufacturing processes to meet the growing demands of **Industry 4.0**. The seminar emphasized how these tools aid in real-time monitoring, automation, and sustainable practices, enabling industries to remain globally competitive.


The session was highly interactive, with students actively engaging in discussions and clarifying their queries about practical applications and career opportunities in advanced manufacturing domains. The event provided valuable insights that will help students bridge the gap between classroom learning and industrial requirements.

Overall, the seminar proved to be an enriching experience, motivating students to strengthen their technical knowledge and adopt modern tools for their professional growth.

# INTRODUCTION ABOUT ROBOTICS & AUTOMATION



## DMI COLLEGE OF ENGINEERING



Palanchur, Nazerethpet PO, Chennai 600123  
Approved by AICTE, Affiliated to Anna university & NBA Accredited programmes

## DEPARTMENT OF MECHANICAL ENGINEERING

*In Association with*  
Institution Innovation Council (IICs) & All India Council for Robotics & Automation  
*Organizes Seminar on*

# INTRODUCTION ABOUT ROBOTICS & AUTOMATION

*Guest Speakers*

- **GAYATHRI** *Manager (AICRA)*
- **ASHWIN** *District Coordinator (AICRA)*

➤ *Date* **9/3/2023**

➤ *Time* **11:00 AM**

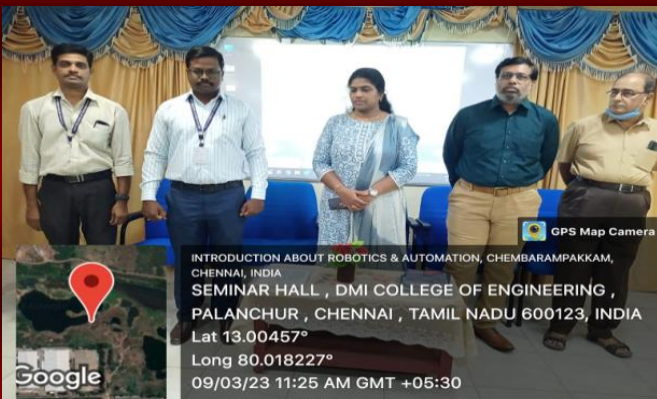
➤ *Venue* **Seminar Hall**

R.Venkatesh AP/MECH  
**COORDINATOR**

Rev Sr. P. Pradeeba  
**ADMINISTRATOR**

Dr. N. Azhagesan  
**PRINCIPAL**

Rev Sr. M. K. Teresa  
**CORRESPONDENT**



The Department of Mechanical Engineering, DMI College of Engineering, organized a seminar on “*Introduction to Robotics and Automation*” on **9th March 2023**. The session was conducted by **Ms. Gayathri, Manager, AICRA (All India Council for Robotics & Automation)** and **Mr. Ashwin, Coordinating Director, AICRO**, both distinguished experts in the field of robotics and emerging automation technologies. The seminar was arranged to provide students with fundamental knowledge and exposure to the rapidly advancing areas of robotics, automation, and their applications across industries.

The resource persons began the session by explaining the **evolution of robotics** and its growing importance in industrial, medical, and service sectors. Students were introduced to the key concepts of robotics such as **mechanical design, sensors, actuators, control systems, and artificial intelligence integration**. The speakers emphasized how automation is reshaping industries by enhancing **productivity, precision, and efficiency** while reducing human effort and operational costs.

Special focus was given to the role of robotics and automation in **Industry 4.0**, highlighting technologies like collaborative robots (cobots), autonomous systems, and smart manufacturing practices. The session also explored career opportunities in robotics, with insights on the skills required to pursue successful careers in this domain, including programming, mechatronics, and problem-solving abilities.

The seminar was highly interactive, with students actively participating in discussions and clarifying their doubts regarding practical applications. The program concluded with motivational guidance encouraging students to embrace robotics and automation as key drivers of the future.

Overall, the seminar enriched the students’ knowledge, broadened their perspective, and inspired them to explore innovative pathways in modern engineering.

# WORKSHOP FOR TWO DAYS HANDS ON TRAINING

## IC Engines & EV technology and "Refrigeration and Air Conditioning

**DMI COLLEGE OF ENGINEERING**  
Palanchur, Chennai- 600123

**Department Of Mechanical Engineering**

Organize  
A two-day hands on training on  
**IC Engines & EV Technology**  
For 2nd Year  
&  
**Refrigeration And Air Conditioning**  
For 3rd Year  
In Association With  
**M/S. Goodwin Motors  
Chennai**

During On 09.03.2023 & 10.03.2023  
Organized By  
**SAE India Collegiate Club  
Association Of Radiant Mechanical Youngsters (ARMY)**

Coordinators  
Mr. S. Rajamahendran AP/Mech Dr. V.N. Anbazhagan Hod/Mech Dr. N. Azhagesan Principal Rev Sr P.Pradeeba Administrator Rev Sr. M. K. Teresa Correspondent  
Mr. G. Tamilkumaran AP/Mech



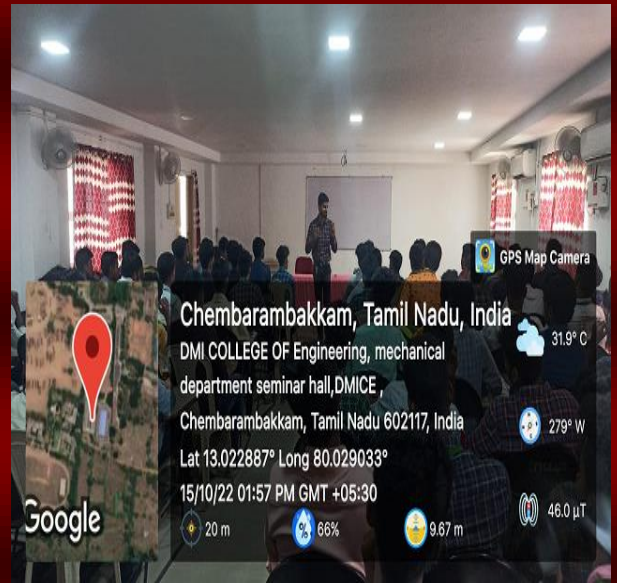
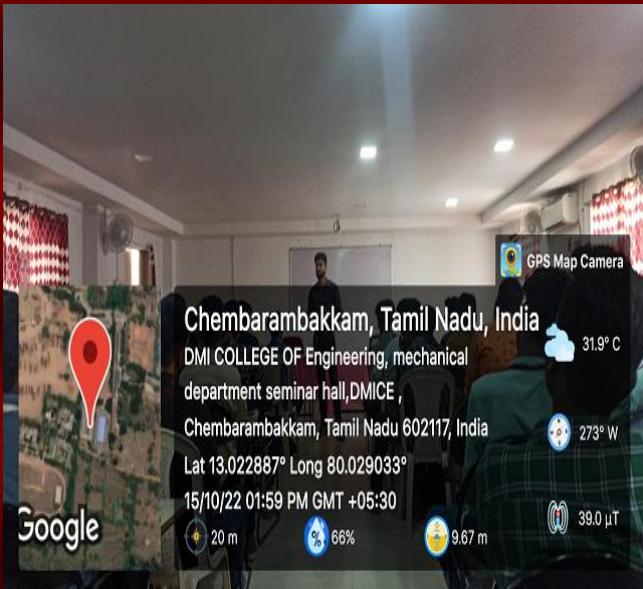

The Department of Mechanical Engineering organized a **two-day hands-on training program** on *“IC Engines & EV Technology”* and *“Refrigeration and Air Conditioning”* for the second and third-year students on **9th and 10th March 2023**. The objective of the program was to bridge classroom learning with practical exposure, enabling students to understand the functioning, applications, and future scope of modern engineering systems.

On the first day, sessions focused on **IC Engines and Electric Vehicle (EV) Technology**. Students gained insights into the fundamentals of internal combustion engines, their components, working principles, and performance analysis. The session also highlighted the limitations of conventional engines and the growing importance of sustainable mobility solutions. Practical demonstrations and case studies on EV technology provided students with an overview of electric powertrains, battery management systems, charging infrastructure, and recent innovations in the automotive industry.

The second day was dedicated to **Refrigeration and Air Conditioning (RAC)**. Students were introduced to the basic thermodynamic cycles, components of refrigeration systems, and their applications in domestic and industrial sectors. The training emphasized energy efficiency, environmental concerns, and emerging technologies in the field of cooling and air conditioning. Live demonstrations and hands-on practice helped participants to relate theoretical concepts with real-time operations.

Overall, the training enhanced students’ technical knowledge, practical skills, and awareness of industry trends. It motivated them to explore innovative solutions in the areas of automotive engineering and thermal systems, thereby preparing them for future academic projects and career opportunities.

# CAREER GUIDANCE



The Department of Mechanical Engineering organized a **Career Guidance Program** for second, third, and final-year students on **15th October 2022** at the department seminar hall. The session was conducted by **Mr. Daniel**, from the *Rabbi Institute of Skillset Empowerment, Chennai*, who shared his expertise and insights on career planning, industry expectations, and the skillsets required to succeed in today's competitive world.

The primary objective of the program was to help students gain clarity about the multiple career paths available to mechanical engineers, ranging from core industries to interdisciplinary domains such as information technology, data analytics, artificial intelligence, and emerging fields like renewable energy and electric mobility. Mr. Daniel emphasized the importance of bridging the gap between academic knowledge and industry requirements through continuous learning, certification programs, and hands-on project experiences.

He also highlighted key skills that enhance employability, such as communication, problem-solving, adaptability, teamwork, and leadership. The session included interactive discussions where students were encouraged to share their aspirations and queries regarding higher studies, government examinations, and placement opportunities. Practical tips on resume building, interview preparation, and professional networking were also provided, giving students a realistic understanding of the hiring process and employer expectations.

Overall, the career guidance session proved to be highly beneficial, motivating students to take proactive steps in shaping their professional journey. The event helped them align their strengths and interests with future opportunities, thereby instilling confidence and direction for their academic and career growth.

# PAPER PRESENTATION-TECH FEST 2K22



The Management, Principal, Staff and Students  
**DMI COLLEGE OF ENGINEERING**

With the blessings of  
**Very Rev. Fr. Dr. J. E. Arul Raj**  
Founder and Chairman of DMI & MMI Group of Institutions

Cordially invite you for  
**TECH FEST 2K22**  
to be held on 18<sup>th</sup> October 2022 at 09.30 am  
in  
Emmanuel Auditorium

**Mr. Joel S Davis**  
Senior Technology Architect, Infosys  
has kindly consented to be the Chief Guest

Rev. Sr. M.K.Teresa, DMI Correspondent      Rev. Sr. P.Pradeeba, DMI Administrator      Dr.N.Azhagesan Principal



The Department of Mechanical Engineering organized a **Paper Presentation Competition** as part of *Tech Fest 2K22* on **18th October 2022** in the department seminar hall. The event was coordinated for **II, III, and IV year Mechanical Engineering students** and was graced by the presence of **Mr. Joel S. Davis** as the resource person.

The main objective of the program was to encourage students to explore innovative ideas, enhance their research skills, and present their technical knowledge in a structured and professional manner. Students presented papers on a wide range of topics covering advancements in manufacturing, automation, sustainable energy solutions, materials technology, robotics, and design innovations. Each presentation was evaluated based on originality of the idea, technical content, clarity of communication, and practical applicability.

Mr. Joel S. Davis provided valuable insights on how to select relevant topics, conduct systematic research, and structure technical papers effectively. He also guided the students on presentation skills, the importance of data visualization, and the need for critical thinking in engineering problem-solving. The session promoted healthy competition among the participants, boosting their confidence and motivating them to stay updated with emerging trends in the mechanical domain.

Overall, the Paper Presentation event served as a platform for students to showcase their technical abilities, exchange knowledge, and gain feedback for further improvement. It also strengthened their analytical and communication skills, preparing them for future academic, research, and career opportunities.

# ASSEMBLY



The Department of Mechanical Engineering conducted a **Department Assembly** on **22nd November 2022** in the department seminar hall with the active participation of students from all years. The assembly served as a common platform to bring together students and faculty members for sharing important updates, achievements, and upcoming initiatives of the department.

The session began with a formal welcome address followed by departmental announcements related to academics, examinations, placement activities, workshops, and seminars. Faculty members highlighted the importance of maintaining discipline, punctuality, and consistent academic performance. Special emphasis was placed on student participation in co-curricular and extracurricular activities, encouraging them to balance technical growth with personal development.

During the assembly, recent student and faculty achievements were recognized, motivating others to strive for excellence in academics, research, and innovation. Information regarding ongoing projects, industrial visits, and skill development programs was also shared to keep students updated with opportunities that could enhance their technical competencies.

Interactive discussions allowed students to voice their queries and suggestions, creating a healthy environment of communication between faculty and learners. The session also highlighted the department's vision of nurturing technically skilled, responsible, and industry-ready engineers through collaborative learning and professional exposure.

Overall, the Department Assembly acted as a unifying platform that strengthened the bond among students across different years, while also ensuring transparency in departmental activities. It not only provided direction and clarity but also motivated students to actively contribute to the growth and reputation of the department.

# ASSEMBLY



The Department conducted its **first assembly of the academic year** on **14th February 2023** at the Department Seminar Hall. The program aimed to bring together students and faculty members to foster a sense of unity, discipline, and academic focus among the department community.

The assembly began with a **prayer song** invoking blessings for the success of the event, followed by the **welcome address** delivered by faculty members. Students actively participated, and the gathering provided an excellent opportunity for them to connect with their peers and mentors in a formal setting.

The **Head of the Department (HOD)** addressed the gathering, emphasizing the importance of discipline, teamwork, and continuous learning in achieving both academic and personal growth. Faculty members also shared key updates regarding upcoming academic schedules, seminars, workshops, and extracurricular opportunities available for the students.

Student representatives were given a chance to speak, where they expressed their ideas, goals, and expectations for the semester. This interactive segment helped in strengthening the communication between students and the department.

The assembly also highlighted **student achievements** in academics, competitions, and extracurricular activities, thereby motivating others to strive for excellence. The program concluded with a **vote of thanks**, appreciating the efforts of faculty, staff, and students for making the assembly a meaningful event.

Overall, the first Department Assembly served as a **platform for interaction, motivation, and awareness**, setting a positive tone for the rest of the academic year

# DEPARTMENT RECOGNIZED AS A RESEARCH CENTRE



**DMI** Approved by AICTE | Affiliated to Anna University  
NBA Accredited Programmes | ISO Certified Institution  
**COLLEGE OF ENGINEERING**  
Palanchur, Chennai

We are happy to inform that  
the Department of Mechanical Engineering  
of our Institution has been recognized as a  
**RESEARCH CENTRE**  
by Anna University, Chennai  
(REF No: 4120217)

# RESEARCH CENTRE INVITATION FOR INAUGURAL FUNCTION



**DMI College of Engineering**  
Palanchur, Nazarethpet PO, Chennai 600123  
Approved by AICTE, Affiliated to Anna University & NBA Accredited Programs

**Department of Mechanical Engineering**

*Welcome You all for the  
Inaugural Function of*

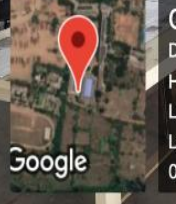
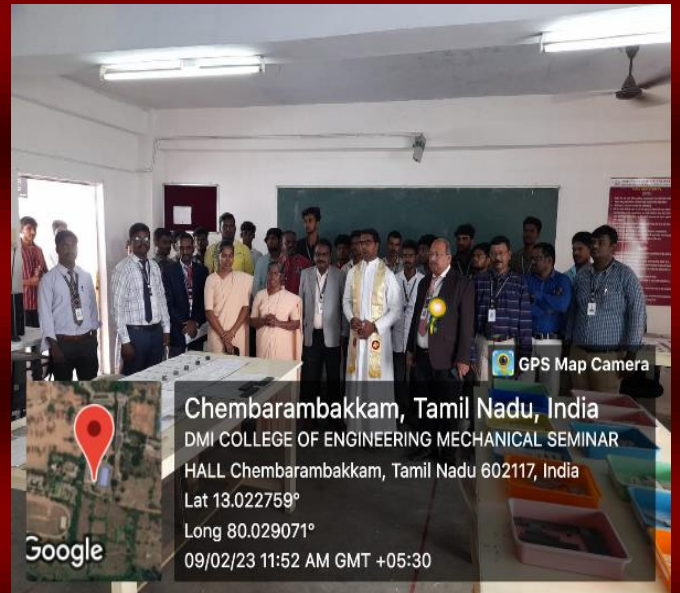
**Anna University Recognized  
Research Center**

**09/02/2023** **11:00 AM**

Rev. Sr. M. K. Teresa	Rev. Sr. P. Pradeeba	Dr. N. Azhagesan	Dr. A. Amala Mithin
Correspondent	Administrator	Principal	Dean (Research)



GPS Map Camera  
**Chembarambakkam, Tamil Nadu, India**  
DMI COLLEGE OF ENGINEERING MECHANICAL SEMINAR  
HALL Chembarambakkam, Tamil Nadu 602117, India  
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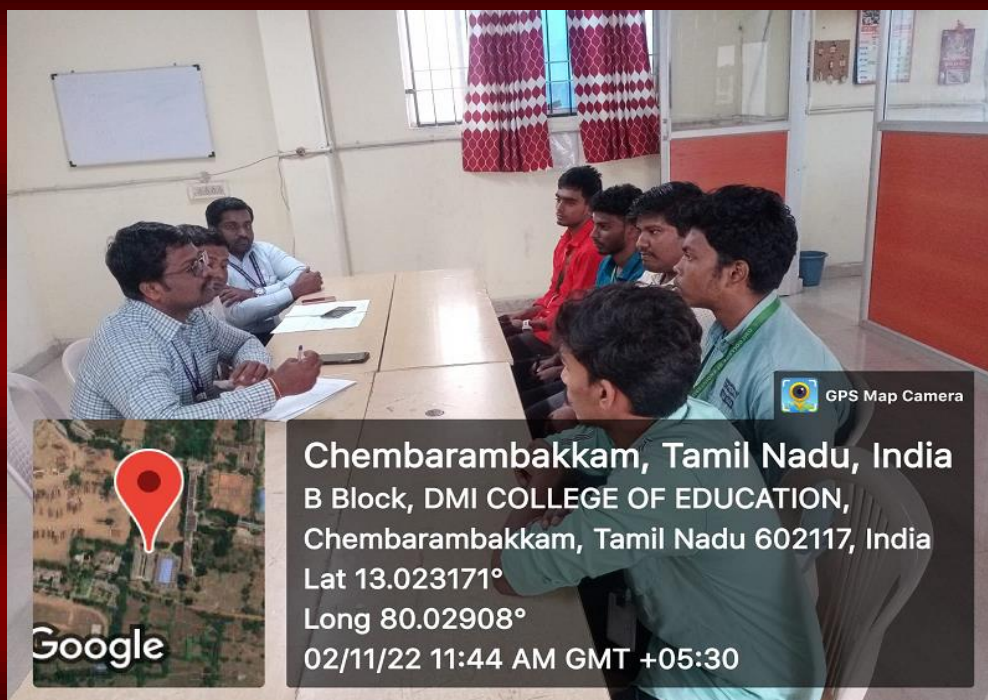
The Department of Mechanical Engineering achieved a significant milestone when it was officially recognized as a Research Centre by Anna University. To mark this prestigious achievement, the inauguration of the Research Centre Lab and Project Lab was organized on 09.02.2023 at the department premises. The program witnessed the presence of esteemed dignitaries, faculty members, research scholars, and students, who gathered to celebrate this remarkable step towards academic and research excellence.

The inauguration ceremony commenced with a formal welcome address, highlighting the journey and efforts taken by the department to attain the recognition of a research centre. The dignitaries shared their insights on the importance of research and innovation in the field of mechanical engineering, emphasizing the role of research labs in fostering creativity, problem-solving, and industry-oriented solutions.

The Research Centre Lab is envisioned to provide advanced facilities and resources to support scholars pursuing doctoral and innovative research projects under Anna University. Alongside, the Project Lab is designed to cater to undergraduate and postgraduate students, equipping them with hands-on exposure to practical experiments, prototype development, and project-based learning. These labs are expected to bridge the gap between classroom knowledge and industrial requirements, encouraging students to engage in multidisciplinary projects and contribute meaningfully to technological advancements.

The event concluded with an expression of gratitude to the university authorities, faculty, and supporters who made this achievement possible. The inauguration symbolized a new chapter for the department, reaffirming its commitment to academic excellence, innovation, and research-driven growth.

# CLASS COMMITTEE MEETING



The Class Committee Meeting of the Department of Mechanical Engineering was convened on 02.11.2022 with the objective of reviewing the academic progress and addressing the concerns of students. The meeting was attended by the Head of the Department, class advisors, FACULTY members handling various subjects, and student representatives from all sections.

The session began with a warm welcome by the class advisor, followed by a briefing on the agenda. The primary focus was on evaluating the teaching–learning process, students’ performance in internal assessments, and the effectiveness of classroom interactions. Faculty members provided feedback on the overall progress of the class, highlighting strengths and areas requiring improvement.

Student representatives actively shared their views on the pace of syllabus coverage, clarity of teaching, availability of study resources, and the conduct of practical sessions. They also discussed challenges faced in understanding certain topics and suggested the inclusion of more examples, interactive sessions, and additional problem-solving practices. Faculty members acknowledged the suggestions and assured appropriate measures to enhance learning outcomes.

Further, discussions were held on laboratory sessions, internal assessments, attendance, and the need for timely guidance to improve academic performance. The committee also emphasized discipline, punctuality, and active participation in both academic and co-curricular activities.

The Head of the Department concluded the meeting by appreciating the open interaction between students and faculty and reiterated the department’s commitment to providing quality education. The session ended with a vote of thanks, marking the meeting as a constructive platform for collaborative improvement.

STUDENT  
ARTICLES





# Design and Fabrication of a Pedal-Powered Portable Water Pump for Rural Irrigation

## Abstract

This project focuses on the design and fabrication of a pedal-powered portable water pump for small-scale irrigation in rural areas where electricity is unavailable. The system is cost-effective, simple to fabricate, and sustainable. Using a human-powered pedal mechanism, it can deliver a flow rate of 10–15 L/min at a head of 5–6 m. The design uses locally available materials, a small centrifugal pump, and a simple transmission system, making it practical for rural farmers.

## Introduction

Rural farmers often struggle with water access due to the lack of reliable electricity. Manual hand pumps are labor-intensive, while motorized pumps require fuel or grid power. This project aims to bridge that gap with a **portable, human-powered irrigation solution**.

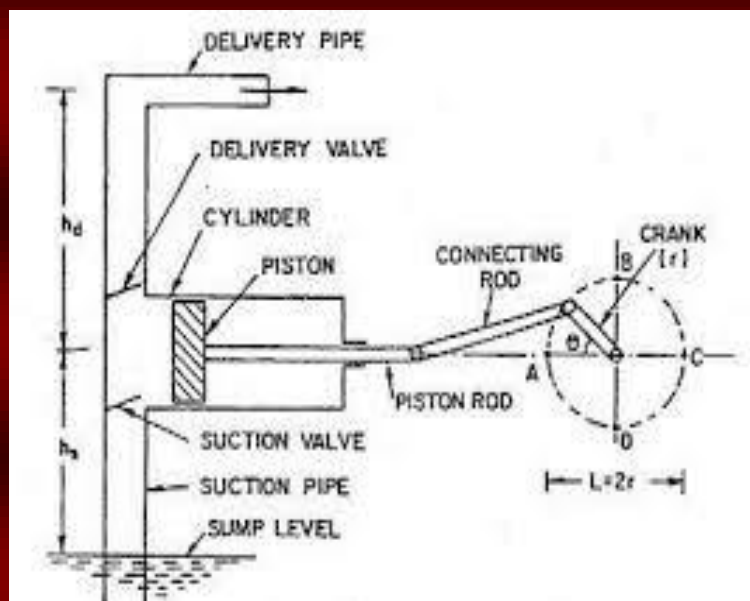
## Objectives:

- Design a cost-efficient and portable pumping system.
- Ensure comfortable operation for continuous use.
- Deliver reliable performance for small farm plots.

## Design Overview

### Key Components:

1. Frame – Mild steel square tubes.
2. Pedal & Crank Assembly – Bicycle mechanism.
3. Chain Drive – Speed amplification for the pump.
4. Pump – Small centrifugal pump.
5. Support Bearings – For smooth rotation.



## Bill of Materials (BOM)

Part	Material	Qty	Cost (INR)
Mild steel frame	25×25×2 mm	1	800
Crank & pedals	Standard	1	600
Chain & sprockets	Bicycle type	1	400
Centrifugal pump	Small manual	1	1,200
Bearings	6203 type	2	200
Misc. fasteners	Steel bolts	—	200
<b>Total</b>			<b>4,800</b>

## Key Calculation (Summary)

Target flow rate: 12 L/min at 5 m head.

Hydraulic Power:

$$P = \rho \times g \times Q \times H$$
$$= 1000 \times 9.81 \times 0.0002 \times 5 = \mathbf{9.81 \text{ W}}$$

Accounting for efficiency losses:

- Required human power  $\approx \mathbf{25 \text{ W}}$
- Comfortable for an average adult.

Pedal Force (F):

$$F = \frac{T}{r} = \frac{4.0}{0.17} \approx 23.4 \text{ N}$$
$$NF = rT = 0.17 \times 4.0 \approx 0.68 \text{ Nm}$$

(Easy to operate continuously)

## Results

- Flow achieved: **11–13 L/min**
- Comfortable operation for **20–30 minutes**
- Portable and easy to maintain.

## Conclusion

The prototype provides an affordable, electricity-free irrigation solution for small rural farms. With a total cost under INR 5,000, it supports sustainable agriculture and self-reliance.

## Future Scope:

- Flywheel for smoother operation
- Positive displacement pump for higher head
- Bicycle-mounted mobility

## References

1. Fluid Mechanics by R.K. Rajput
2. NGO Treadle Pump Designs – Practical Action Reports
3. Water Lifting Devices – FAO Technical Manual

BY  
ABISHEK  
(3<sup>RD</sup> YEAR)

# SMART MATERIALS IN MECHANICAL ENGINEERING

In today's fast-evolving technological world, mechanical engineering is embracing innovations that push the limits of design and functionality. One such breakthrough is the use of **smart materials**. These are materials that can sense changes in their environment and respond to them in a useful way.

Smart materials are designed to react to external stimuli such as temperature, pressure, magnetic fields, or stress. For example, shape memory alloys can return to their original shape when heated, while piezoelectric materials generate electricity when pressure is applied. Such characteristics make them highly valuable in industries seeking efficiency, durability, and innovation.

The applications of smart materials are vast. In aerospace, they are used to create adaptive wings that change shape during flight to improve aerodynamics. In the automotive industry, smart materials help develop self-healing coatings that repair scratches automatically. The medical field benefits from these innovations as well, with smart implants and responsive prosthetics that adapt to the user's body.

One of the biggest advantages of smart materials is that they reduce the need for complex mechanical systems. Instead of adding extra components, engineers can design materials themselves to perform advanced functions. This leads to lighter, more compact, and more energy-efficient products.

Although still a developing area, the future of smart materials looks promising. With continued research, they may revolutionize robotics,.

BY

GOWTHAM

(3<sup>RD</sup> YEAR)

# **GREEN MANUFACTURING IN MECHANICAL ENGINEERING**

In the modern era, industries are focusing not only on productivity but also on sustainability. **Green manufacturing** has emerged as a vital trend in mechanical engineering, aiming to reduce environmental impact while maintaining efficiency and quality.

Green manufacturing refers to the use of eco-friendly processes, renewable energy sources, and waste-reducing techniques in production. Instead of relying on conventional methods that generate high emissions and material waste, industries are adopting cleaner technologies. For example, CNC machining with optimized cutting paths minimizes material waste, while additive manufacturing reduces excess use of raw materials.

The applications of green manufacturing can be seen across industries. Automotive companies are shifting toward electric vehicle production, incorporating lightweight materials and energy-efficient assembly lines. In aerospace, engineers are designing aircraft components that are recyclable and consume less fuel. Even small-scale industries are adopting renewable energy sources like solar-powered machines to reduce their carbon footprint.

One major advantage of green manufacturing is cost efficiency in the long run. Although the initial setup may require investment, energy savings, material optimization, and government incentives make it economically beneficial. Moreover, eco-friendly products have a strong market demand, giving industries a competitive edge.

The future of green manufacturing is bright. With advancements in automation, artificial intelligence, and IoT,

BY

MANOJ KUMARAN

(2<sup>ND</sup> YEAR)

# **SOFT ROBOTICS – THE FUTURE OF FLEXIBLE MACHINES**

Mechanical engineering is no longer limited to rigid machines and heavy structures. A new revolution is emerging with **soft robotics**, where robots are built from flexible, lightweight, and adaptive materials inspired by living organisms.

Unlike traditional robots made of metal and hard joints, soft robots use materials such as silicone, polymers, and smart gels. These allow them to bend, stretch, and twist, just like muscles in the human body. Their design is often inspired by nature—such as the movement of octopus arms, elephant trunks, or even human skin.

Soft robotics has opened up exciting applications. In the medical field, soft robots can perform minimally invasive surgeries by moving gently inside the body without damaging organs. In agriculture, they can pick fruits without crushing them, adapting to different shapes and sizes. Underwater exploration also benefits from soft robots, which move like fish or jellyfish, accessing areas traditional machines cannot reach.

The biggest advantage of soft robotics is safety. Since they are flexible, they can work side by side with humans without causing harm. This makes them perfect for collaborative robots (cobots) in industries. They are also lightweight and energy-efficient, reducing power consumption compared to heavy mechanical robots.

**BY**

**NARAYANAMOORTHY**

**(2<sup>ND</sup> YEAR)**

# ODE TO INNOVATION IN ENGINEERING

In labs where silence meets the spark,  
New visions rise and leave their mark.  
From coded lines to crafted steel,  
Engineers shape the world we feel.

The hum of machines, the drone of gears,  
Carry the weight of hopes and years.  
Bridges rise where rivers lay,  
And satellites chart the Milky Way.

Each circuit drawn, each model planned,  
Is born from heart and guided hand.  
Equations whisper, designs ignite,  
Ideas take form in metal and light.

Where turbines spin and pistons flow,  
Where future seeds of progress grow,  
There lies the craft, both bold and true,  
Of minds that dream what none yet knew.

O endless quest, O noble art,  
You bind the world in every part.  
Through fire, force, and wisdom deep,  
Your legacy the ages keep.

To engineers, whose work won't fade,  
Whose thoughts build tools the future made—  
We sing this ode, both strong and clear:  
The soul of progress lives right here.

BY  
NITHISH  
(2<sup>ND</sup> YEAR)

## THE RIVER OF DREAMS

A river flows, both calm and wide,  
Carrying hope on every tide.  
Its waters dance, its ripples sing,  
Of endless life and everything.

It bends through valleys, climbs the plain,  
It weathers loss, it welcomes rain.  
Through stone and storm, it carves its way,  
A silent guide, both night and day.

The river knows no fear, no end,  
It turns, it twists, it learns to bend.  
Each drop a dream, each wave a song,  
A force that carries all along.

Upon its banks the flowers bloom,  
They chase away the deepest gloom.  
Reflections shine, the stars embrace,  
A mirror wide of time and space.

So let us be like rivers deep,  
That never tire, that never sleep.  
To chase our path, to forge, to grow,  
Through every trial, let courage flow.

For dreams, like rivers, find the sea,  
A destiny of what will be.  
The river flows, so strong, so true,  
A timeless gift for me and you.

by

Harishbala

(3<sup>rd</sup> year)

## **THE ROLE OF ROBOTICS IN MODERN ENGINEERING**

The world of engineering is constantly evolving, and one of the most transformative forces in recent years is **robotics**. Robotics combines mechanical engineering, electronics, and computer science to design machines that can perform tasks with speed, precision, and intelligence.

For mechanical engineers, robotics is not just a tool but a field of endless innovation. Engineers design robotic arms for factories that assemble cars with accuracy, medical robots that assist in delicate surgeries, and even autonomous drones that explore dangerous environments where humans cannot safely go.

The daily work of an engineer in robotics involves designing mechanical structures, integrating sensors, and programming control systems to bring the robot to life. Using simulation software, they test movements, optimize energy use, and ensure safety in real-world applications. This process requires creativity, problem-solving, and a strong foundation in mechanics and automation.

The role of robotics is also vital in shaping the future. From assisting astronauts in space exploration to creating service robots that help in healthcare, the possibilities are limitless. Moreover, robotics contributes to sustainability by improving efficiency, reducing waste, and lowering human risk in hazardous industries.

Although the field is challenging and requires constant learning, the rewards are immense. Engineers in robotics have the opportunity to see their ideas move, interact, and even think in ways that were once science fiction.

Robotics is more than just machines; it represents humanity's quest to push boundaries and make life better.

LOKESH

(3<sup>RD</sup> YEAR)



PHOTOGRAPHY



A vertical photograph of a night landscape. The sky is dark blue and filled with stars, with the Milky Way galaxy visible as a bright, hazy band of light stretching vertically through the center. Below the sky, a range of jagged, snow-capped mountains is silhouetted against the starry background. The mountains and the sky are reflected in a calm body of water in the foreground, creating a symmetrical, mirror-like effect. The overall color palette is dominated by deep blues and blacks, with the white of the snow and the bright stars providing contrast.

ART





# **MIECHONS'23**

**2023 Edition**

**(July 2022 - June 2023)**

**Chief Editor**

**Dr. V N Anbazhagan**

**Editors**

**Mr. G. Tamilkumaran**

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