

DEPARTMENT ASSOCIATION OF MECHANICAL ENGINEERING



MECHANICA

“Excellence is not an act, but a habit”

Annual Report

MECHANICA 2024-2025

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Mechanica Inauguration 2024-2025

Held on 09/08/2024

Inauguration of department association

On August 9, 2025, Mechanica. The department association of mechanical engineering called Mechnite-24 was inaugurated.

Dr. Karthick Shankar, an alumnus, inaugurated the association and gave a technical presentation on Use cases of CAE in Industries.



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EXPERT TALK (Online) by George Cheruvathoor

Held on 14/08/2024

On August 14, 2024, Mechanica The department association of mechanical engineering organized an expert talk on Innovation in Oil & Gas Industry

Mr. George Cheruvathoor, an alumnus, shared his insights & overview on current trends, challenges & technological advancements shaping the oil & gas industry.



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OUTREACH PROGRAM on Innovation & Entrepreneurship

Held on 28/08/2024

The interactive session on the " Innovation and Entrepreneurship " was held on 28.08.2024 at Government Girls Higher Secondary School, Kottur Road, Pollachi.

The session aimed to provide students with insights of Entrepreneurship and Innovation in various fields such as Automation technology, Drone technology, Lightweight material.



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EXPERT TALK on Innovation in Unexplored Domain in Mechanical Engineering

Held on 20/09/2024

Mechanical engineering professionals, students, and enthusiasts to discuss cutting-edge innovations in lesser-known areas of mechanical engineering.

The speaker Dr.S.Senthilvelan ,shed light on emerging technologies, novel materials, and unexplored applications, offering fresh perspectives on how innovation can redefine the future of the discipline.



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EXPERT TALK on 3T's of Growth - Talent, Technology & Transformation

Held on 20/09/2024

The expert talk on “3T's of Growth Talent, Technology, Transformation” was held on 20.09. 2024, featuring Mr.D.Raja Vineeth, an Ex senior Process Engineer at Bosch Automotive electronic India Pvt Ltd, Bengaluru.

Speaker shared practical insights on how these three pillars are essential for organizational success and personal development in a rapidly evolving world.



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EXPERT TALK on MEMS Revolution : Transforming Industries through Miniaturization & Precision

Held on 23/10/2024

The guest lecture on “MEMS Revolution: Transforming Industries through Miniaturisation and Precision” was organized by the Departments of Mechanical, Automobile, and Electrical and Electronics Engineering in association with the ISTE Student Chapter. This session aimed to enlighten students and faculty about the transformative potential of Micro-Electro-Mechanical Systems (MEMS) in various industrial applications.



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EXPERT TALK on Emerging Trends in Military Aviation

Held on 25/10/2024

The guest lecture on “Emerging Trends in Military Aviation” was organized by the Departments of Mechanical and Automobile Engineering in collaboration with Mechanica, Scuderia Aves, and the Institution’s Innovation Council. The session aimed to provide students and faculty insights into advancements in military aviation and its implications for engineering design and innovation by Mr.Senthilkumar



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EXPERT TALK on Enabling Optimization Technologies in NPD

Held on 28/01/2025

The event titled "Enabling Optimization Technologies in New Product Development" was conducted online on 28.01.2025, organized by Mechanica, Department of Mechanical Engineering. Expert speaker Mr. Sujith S Pillai shared insights on using AI, ML, and computational tools to enhance product development.

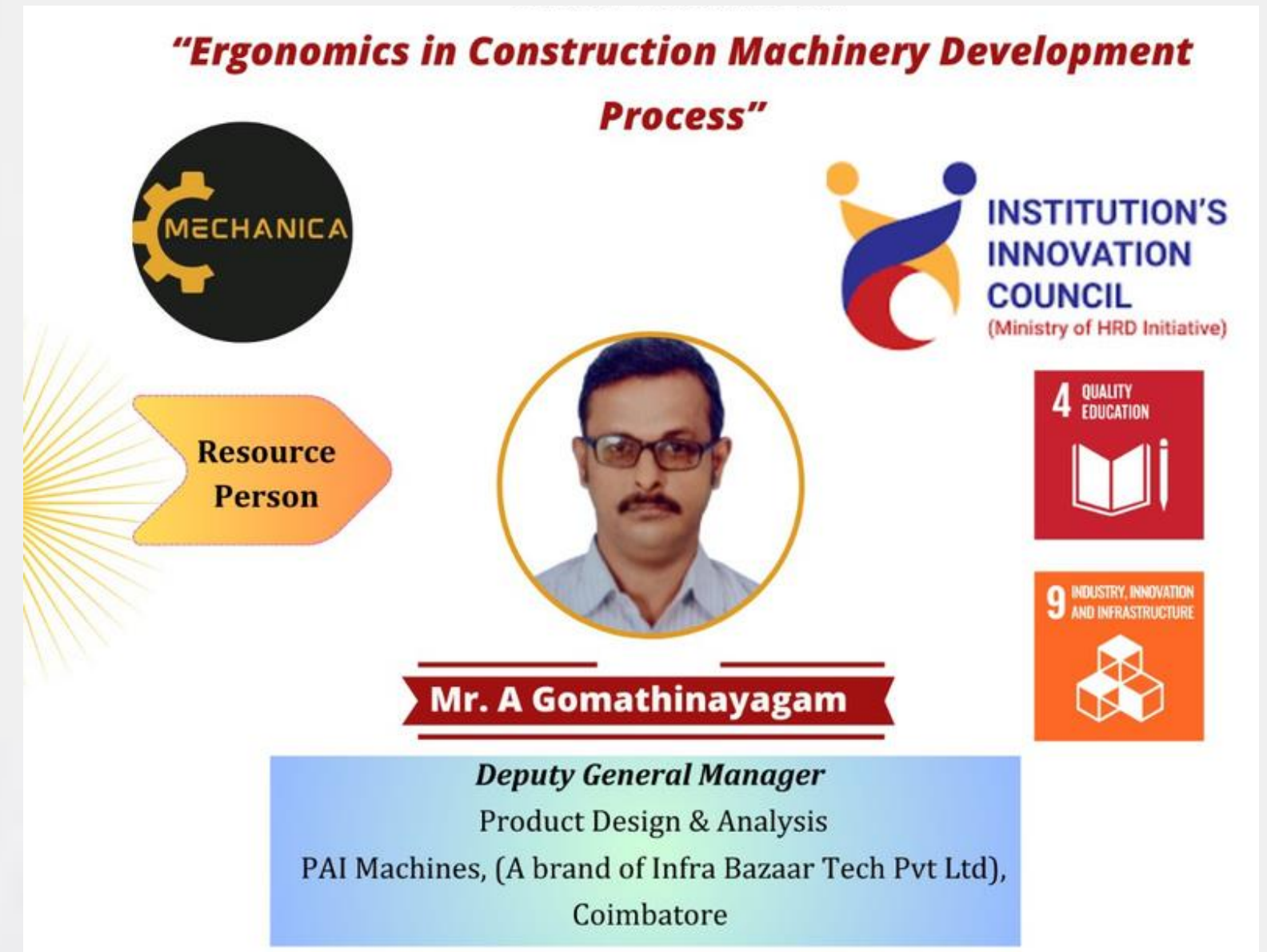


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EXPERT TALK on Ergonomics in Construction Machinery Development Process

Held on 21/02/2025

The guest lecture on "Ergonomics in Construction Machinery Development Process" was held on 21.02.2025 at Dr. MCET, organized by the Department of Mechanical Engineering in collaboration with the Institution's Innovation Council. The session featured Mr. A. Gomathinayagam from PAI Machines, who discussed the importance of ergonomic principles in enhancing machinery safety, usability, and operator comfort.



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TECHNOFETE'25 : BOT SMITH

Held on 13/03/2025



The event was held on 13.03.2025 at Dr. MCET, organized Mechanica. It focused on testing students' prompt engineering skills through real-time AI-based tasks using ChatGPT. Participants were challenged to craft precise prompts to obtain accurate AI responses, judged on prompt clarity, answer quality, and time efficiency.

With 37 participants and 3 winners, the event successfully highlighted the role of prompt engineering in modern AI use and sparked plans for future AI-focused events.



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TECHNOFETE'25 : SCULPT & SHAPE

Held on 13/03/2025



The SCULPT & SHAPE event, held on March 13, 2025 as part of TECHNOBYTE'25 at Dr. MCET, was organized by the Mechanical Engineering Department in collaboration with the Student Research Council and MECHANICA.

It featured a two-round competition combining puzzle-solving and clay modeling, where students applied analytical thinking and creativity. The event successfully blended engineering and art, with 24 teams participating and 6 advancing to the final round.



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TECHNOFETE'25 : MECHANICA'S SQUID GAME

Held on 14/03/2025

Held on 14th March 2025 as part of Technofete'25 at Dr. MCET, Mechanica's Squid Game was a dynamic event blending technical tasks with physical challenges inspired by the popular web series.

Organized by the Department of Mechanical Engineering, the event tested students' teamwork, engineering skills, problem-solving, and agility through multiple elimination rounds. With strong student participation and engagement, the event concluded successfully, awarding the top 3 teams and receiving positive feedback for its innovative and interactive learning approach.



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Batch 21-25 Farewell

Held on 21/04/2025

The farewell for the 2021–2025 batch was held on 21st April 2025 at Dr. MCET, celebrating the students' growth, achievements, and cherished memories over the past four years. The event featured emotional speeches, faculty appreciations—especially for Dr. S. Ayyappan and Dr. Ramathirumurugan—and heartfelt student performances.



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Industry Conclave-2025

Held on 26/04/2025

The Department of Automobile Engineering and Mechanical Engineering conducted Industry Conclave-2025 on April 26, 2025. With the theme "Revolutionizing Engineering in the Digital Age," the event focused on the integration of AI, IoT, Data Analytics, Electric Vehicles, and Hydrogen Technology in driving innovation across the mechanical and automotive industries.



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THANK YOU