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**DYNAMECH Department Club Activity on
“PRODUCT 365”
(07th MAY 2025) – 1.30 pm to 4.00 pm**

DYNAMECH Club Activity on “PRODUCT 365”

DYNAMECH Club Activity on ‘PRODUCT 365’ was successfully conducted by the Department of Mechanical Engineering in association with ISTE, IIC and IQAC – MVJCE, on 07th May 2025 from 01.30 pm to 4.00 pm. This DYNAMECH Club Activity was conducted to influence upon students, the importance of product development and innovation, for their career and future product development. Overall, 43 students attended this event from the Mechanical Department. **Mr. Yuvaraj M, Designer, DHIO Research & Engineering Pvt Bengaluru** was invited as a chief guest for this event.

CLUB ACTIVITY THEME:

"PRODUCT 365"

Objectives:

- To share knowledge and expertise related to product development, management, and marketing.
- To foster innovation and creativity in product development through discussions and design.

Problem Statement:

Product-based activities in manufacturing face several challenges that can impact productivity, quality, and customer satisfaction.

Some common problem statements include:

Defects and Rework: Products may have defects or require rework due to inadequate quality control measures, resulting in increased costs and delayed deliveries.

Inconsistent Quality: Variability in product quality can lead to customer dissatisfaction and damage to brand reputation.

Material Shortages: Supply chain disruptions can cause material shortages, leading to production delays and increased costs.

Logistical Challenges: Managing logistics and inventory can be complex, especially when dealing with multiple suppliers and manufacturers ².

Inefficient Processes: Inefficient production processes can lead to wasted resources, reduced productivity, and increased costs.

Equipment Malfunctions: Equipment failures can cause production downtime, leading to lost productivity and revenue.

Skill Shortages: Manufacturers may face skill shortages or high employee turnover rates, impacting productivity and quality.

Training and Development: Providing regular training and development opportunities can help address skill gaps and improve workforce performance.

Cost Optimization: Manufacturers need to balance production costs with product quality and customer expectations.

Profitability: Effective cost control and efficient production processes are crucial for maintaining profitability in a competitive market.

Product Development Complexity: Managing product development knowledge and integrating it with IT infrastructure can be challenging.

System Integration: Integrating different systems and technologies can be complex, requiring significant resources and expertise

Requirements Involved in Club Activity:

A3 Sheet for designing the future based product

Include design and 2D or 3D diagram

Include sustainable ideas which transform into product based

Mention scale of dimensions

Uniqueness and neatness of the design

Highlight of the Event:

Dr. Shrinivas L Gombi, Dean Academics, delivered the talk concerning the importance of club activity to the students. He also revealed the significance of ideas and product development for the

engineers especially in core branches of Mechanical and Aeronautical departments. Dr. Santhosh N, Professor and Head, Department of Mechanical Engineering, introduced the chief guest and delivered the speech about the club activity and presented the rules and regulations. Then session was handedover to the chief guest **Mr. Yuvaraj M, DHIO Research & Engineering Pvt Bengaluru**, who delivered a talk on the importance of product and their fabrication techniques in manufacturing industries. Design and simulation play a crucial role in manufacturing industries, offering numerous benefits that can improve product development, reduce costs, and enhance overall efficiency. Subsequently he motivated the students about the importance of design and simulation in manufacturing sectors. The following points were summarized from his session.

1. **Product Development:** Design is the foundation of product development, enabling the creation of innovative and functional products.
2. **Prototyping:** Design allows for the creation of prototypes, which can be tested and refined before mass production.
3. **Aesthetics and User Experience:** Design considers both aesthetics and user experience, ensuring products are visually appealing and user-friendly.
4. **Material Selection:** Design involves selecting suitable materials, considering factors like durability, sustainability, and cost.

Simulation

1. **Virtual Testing:** Simulation enables virtual testing, reducing the need for physical prototypes and minimizing costs.
2. **Performance Analysis:** Simulation analyses product performance under various conditions, identifying potential issues and areas for improvement.
3. **Optimization:** Simulation optimizes product design, reducing material usage, weight, and costs while improving performance.
4. **Risk Reduction:** Simulation reduces risks associated with product failure, safety issues, and regulatory non-compliance.



Dr. Santhosh N, HoD delivering the instructions on Club Activity to students



Students keenly listening to the instructions given by the HoD



Students participating actively in the Club Activity



Chief guest valuating the student's performance about their product design

Overall, the Club activity was very well coordinated, with the main impetus on Product 365 and the students were actively engaged in the event. The Club activity came to an end, with concluding remarks from **Mr. Yuvaraj M, Designer, DHIO Research & Engineering Pvt Bengaluru**, on how to improve the design of components and convert the design to final product. He encouraged the participants to participate actively in all the future events.

Outcome of the Club Activity:

- Product Performance including functionality, quality and reliability in manufacturing sectors.
- User Experiences by user friendly and easy to handle and the product should meet user needs and expectations, resulting in high user satisfaction
- Design and Development Process like the design and development process is efficient, with minimal delays or setbacks
- The product incorporates innovative design elements, features, or technologies
- The product is designed with environmental sustainability in mind, minimizing waste and reducing environmental impact
- The product is designed for recyclability, reducing waste and promoting sustainability

Summary of the DYNAMECH Club Activity on Product 365

Date of the Event	07 th May 2025
Time of the Event	01.30 pm to 4.00 pm
No. of. Participants	43 Students
Venue	CAMD Lab (Room No. 44)
Title of the Event	DYNAMECH Club Activity on 'Product 365'
Theme of the Event	Product Based Design using Solid Works and Manual sketching
Winner and Runner up	Winner: ADRIN VINOD (1MJ24ME401)- ME Runner Up: PAVAN PATIL (1MJ23ME011) - ME
Organized by	DYNAMECH Student Club, Department of Mechanical Engineering, MVJCE



ADRIN VINOD
1MJ24ME401
(1ST Prize)



PAVAN PATIL
1MJ23ME011
(Runner Up)

Photographs of the Winner and Runner up of the Event