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Project Expo 2022-23

Department of Mechanical Engineering

The inauguration of the Project Expo event was held on 05th June 2023 at 10 am. Mr. Hanume Gowda B H, Manager, HAL has been invited as industry expert evaluator for the students projects. The Department of Mechanical Engineering has organized project expo to exhibit the final year projects done by students. The main objective of organizing this exhibition was to provide a platform to unleash the potential of the students by showcasing their innovative projects and provide an opportunity for the students to demonstrate their learning experience. The students showed good enthusiasm in displaying their projects. 37 projects were exhibited and a total of 130 students participated in this event.

Key Highlights:

- 1. Varied Project Domains:** The projects covered a wide spectrum of mechanical engineering disciplines, demonstrating the students' expertise in different areas. Participants presented projects in fields such as automotive engineering, thermodynamics, fluid mechanics, materials science, robotics, renewable energy, and manufacturing processes. The diverse project domains showcased the breadth of knowledge and interests among the students.
- 2. Innovative Project Designs:** The event displayed numerous innovative project designs, reflecting the students' ability to apply engineering principles to solve practical problems. Notable projects included an energy-efficient hybrid vehicle prototype, an automated agricultural irrigation system, a novel wind turbine design for urban areas, a 3D-printed prosthetic limb, and a smart home automation system. These projects highlighted the students' commitment to pushing the boundaries of mechanical engineering and developing sustainable solutions.
- 3. Practical Demonstrations:** Each participant had a designated booth to present their projects, accompanied by practical demonstrations. The students showcased working prototypes, simulations, and physical models to illustrate the functionality and effectiveness of their designs. The interactive demonstrations allowed attendees to witness the projects in action and gain a better understanding of their potential real-world applications.

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4. **Expert Evaluation and Feedback:** A panel of experienced faculty members and industry experts evaluated the projects based on criteria such as technical competence, innovation, feasibility, and presentation skills. The judges provided constructive feedback to the participants, acknowledging their accomplishments and suggesting areas for improvement. This evaluation process enhanced the students' learning experience and encouraged them to refine their projects.

5. **Industry Engagement:** The Project Expo facilitated interaction between the students and industry professionals. Representatives from engineering firms, manufacturing companies, and research organizations attended the event, providing valuable insights and potential networking opportunities for the participants. Industry engagement enriched the students' understanding of real-world engineering practices and opened doors for future collaboration or employment prospects.

Conclusion: The Project Expo of 130 final year Mechanical Engineering students was a resounding success, showcasing their technical expertise, innovation, and dedication to solving engineering challenges. The event not only provided a platform for the students to present their projects but also fostered connections between academia and industry. The exhibited projects demonstrated the students' readiness to contribute to the field of mechanical engineering and their potential to drive innovation in various industries.



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