

## **REPORT ON MECHFiesta 2023**

**Organized by the Department of Mechanical Engineering, YCCE, Nagpur**

**Date: 09th and 10th October 2023**

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### **1. Introduction**

Mechfiesta 2023 marked another milestone in the journey of excellence for the Department of Mechanical Engineering at Yeshwantrao Chavan College of Engineering (YCCE), Nagpur. This annual technical festival was organized with the primary aim of promoting technological innovation, teamwork, and leadership among students. Held on the 9th and 10th of October 2023, the fest provided a dynamic platform for young engineers to exhibit their talents, engage in knowledge-sharing, and compete in a variety of events that tested their academic and practical abilities.

This year's Mechfiesta attracted a large number of participants not only from YCCE but also from various other engineering institutions across the region. The events were meticulously planned and executed by a dedicated team of student organizers, with guidance from faculty members. The fest encompassed a wide range of competitions, workshops, and exhibitions, blending fun with learning and offering an enriching experience for everyone involved.

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### **2. Objectives of Mechfiesta 2023**

- To create awareness among students about the latest trends in mechanical engineering and allied fields.
- To provide an opportunity for students to demonstrate their creativity, innovation, and technical knowledge.
- To foster teamwork, time management, and organizational skills.

- To encourage inter-collegiate interaction and healthy competition.
  - To supplement academic learning with practical exposure.
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### 3. Inaugural Ceremony

The inaugural function of Mechfiesta 2023 was held on the morning of 9th October in the Mechanical Engineering Seminar Hall. The event was graced by Chief Guest Dr. [Name], a renowned industry expert in mechanical systems, and presided over by the Head of the Department, Dr. [Name]. The ceremony began with the traditional lighting of the lamp, followed by a welcome speech by the student coordinator.

In his keynote address, the Chief Guest emphasized the importance of continuous innovation in the field of mechanical engineering and motivated students to make the most of such platforms. The Head of Department highlighted the legacy of Mechfiesta and appreciated the efforts of the student team in organizing the fest.

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#### 4. Events and Competitions

The fest featured a rich mix of technical, non-technical, and fun events spread over two days. These events were designed to test the technical acumen, creativity, and problem-solving abilities of participants.

##### A. Technical Events:

1. **RoboRace** – Autonomous and manually controlled robots competed on a challenging obstacle track. The event tested speed, precision, and programming skills.
2. **CAD Clash** – Participants showcased their design skills using advanced CAD software to create mechanical components and assemblies.
3. **Lathe War** – A live machining competition on lathe machines where students demonstrated precision turning skills.
4. **Tech Quiz** – A quiz competition that tested participants' technical knowledge, logical reasoning, and general awareness in engineering.
5. **Bridge the Gap** – Teams designed and built miniature bridge structures using limited resources, which were later tested for load capacity.

##### B. Non-Technical and Fun Events:

1. **LAN Gaming** – Competitive multiplayer games such as Counter-Strike and FIFA were organized to attract gaming enthusiasts.
2. **Junkyard Wars** – Participants used scrap materials to build functioning mechanical systems within a given time frame.
3. **Treasure Hunt** – A fun event combining riddles, logic, and navigation across the campus.
4. **RC Racing** – Remote-controlled cars raced through custom-built tracks in this high-adrenaline event.
5. **Mini Militia Tournament** – A mobile gaming competition that saw enthusiastic participation from students.

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#### 5. Workshops and Exhibitions

In addition to competitions, Mechfiesta 2023 also hosted several informative sessions and exhibitions:

- **Technical Workshops:** Hands-on workshops on topics like 3D printing, CNC programming, and solid modeling were conducted by industry professionals and faculty.
  - **Project Exhibition:** Final-year students displayed their innovative mechanical engineering projects, ranging from renewable energy systems to automation devices. This exhibition was a major attraction for visiting students and faculty from other departments.
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## 6. Participation and Volunteer Support

Over **400 students** from YCCE and neighboring colleges took part in various events. A strong team of over 60 volunteers, comprising students from second, third, and final year, worked tirelessly to ensure the smooth execution of the fest. Their roles included event coordination, logistics management, registration handling, and hospitality.

The spirit of collaboration and dedication exhibited by the volunteers was commendable and played a significant role in the success of Mechfiesta 2023.

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## 7. Valedictory Function

The valedictory ceremony was held on the evening of 10th October. Prizes were awarded to winners and runner-ups of each event. Certificates of participation were distributed, and special appreciation awards were given to volunteers and organizers.

Dr. [Name], Head of the Department, addressed the gathering and expressed gratitude to all participants, judges, sponsors, and the organizing team. He congratulated the winners and emphasized the importance of such events in shaping future engineers.

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## 8. Feedback and Impact

Feedback collected from participants and attendees indicated a high level of satisfaction with the organization and content of the events. Many appreciated the opportunity to engage with practical engineering challenges outside the classroom setting.

Mechfiesta 2023 successfully met its goals of promoting innovation, technical learning, and student collaboration. The event not only enhanced the visibility of the Mechanical Engineering Department but also strengthened the culture of technical excellence at YCCE.

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## 9. Conclusion

Mechfiesta 2023 was a resounding success. It served as a vibrant platform for aspiring engineers to test their knowledge, showcase their skills, and network with peers and professionals. The enthusiastic participation, well-coordinated execution, and valuable learning outcomes highlighted the event's significance.

The Department of Mechanical Engineering looks forward to organizing future editions of Mechfiesta with even greater fervor and scale, continuing its legacy of excellence and innovation.

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