



JEPPIAAR INSTITUTE OF TECHNOLOGY

(An Autonomous Institution)

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AGRONA “25” REPORT

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(Autonomous)

The AGRONA 25 symposium was held on 21st February 2025 at Jeppiaar Institute of Technology, organized by the Department of Mechanical Engineering. The symposium aimed to provide a multidisciplinary platform for students and professionals to showcase their technical expertise and research acumen. By fostering collaboration and knowledge sharing, this symposium encouraged students to explore emerging technologies, innovative methodologies, and industrial advancements.

1. Inauguration Ceremony

The symposium commenced with an inaugural session at 9:00 AM, presided over by the Head of the Department, **Mr. S. Arun**, who formally inaugurated the event. Distinguished faculty members addressed the gathering, emphasizing the importance of technical symposiums in enhancing academic excellence and bridging the gap between theoretical knowledge and practical applications. The chief guest highlighted the role of mechanical engineering in revolutionizing modern industries, inspiring students to engage in continuous learning and innovation.





2. Technical Events

The symposium featured the following technical events:

- **Paper Presentation (10:00 AM - 1:00 PM)**
Faculty Coordinator: Mr. S. Arun

This event served as an intellectual forum for students to present their research papers on cutting-edge topics, including advanced manufacturing, sustainable engineering solutions, automation, and computational fluid dynamics. Participants delivered well-structured presentations, evaluated by a panel of experts based on originality, technical depth, problem-solving approach, and presentation skills. The best papers were awarded based on their contribution to the field and practical feasibility.

- **CNC Programming (10:00 AM - 10:30 AM)**
Faculty Coordinator: Mr. M. Kubendiran

This event challenged participants to exhibit their proficiency in Computer Numerical Control (CNC) programming by solving real-time machining problems. Contestants were assessed based on their accuracy in G-code and M-code implementation, toolpath optimization, and cycle time reduction. The

event emphasized the importance of precision machining in modern manufacturing industries.

- **CAD Design 3D (10:45 AM - 11:45 AM)**
Faculty Coordinator: Mr. J. Sudhakar

Participants showcased their skills in **Computer-Aided Design (CAD) software**, such as SolidWorks, AutoCAD, and CATIA, by developing intricate 3D models. The evaluation criteria included creativity, geometric accuracy, material selection, and adherence to industrial standards. The event enabled students to apply their design and visualization capabilities to real-world engineering problems.

- **Tech Quiz (1:15 PM - 2:00 PM)**
Faculty Coordinator: Mr. D. Ajithkumar

The Tech Quiz was structured into multiple rounds, covering **mechanical engineering fundamentals, recent technological innovations, industrial automation, and general engineering knowledge**. The event tested participants' analytical thinking, logical reasoning, and problem-solving abilities. Teams advanced through elimination rounds, with the winners securing top honors based on cumulative scores.

Each event provided a competitive yet collaborative environment, allowing students to demonstrate their technical prowess, innovative thinking, and teamwork.

3. Conclusion and Valedictory Ceremony

The symposium concluded with a **valedictory session** held at the college auditorium from **2:15 PM to 2:45 PM**. The event included the distribution of certificates, awards, and appreciation tokens to winners and participants. The **organizing committee and faculty members expressed their gratitude** to all contributors who played a pivotal role in the success of AGRONA 25. The symposium provided valuable networking opportunities, reinforcing the importance of **technical symposiums in academic and professional growth**.



4. Acknowledgments

We extend our heartfelt thanks to:

- The **management and faculty members** of Jeppiaar Institute of Technology for their unwavering support and guidance.
- The **Head of the Department, Mr. S. Arun**, for his leadership in organizing the event.

- The **faculty coordinators (Mr.S.Arun, Mr.M.Kubendiran, Mr.D.Ajithkumar, Mr.S.Jasper)** for their dedicated efforts in planning and executing the symposium.
- The **symposium coordinator, Mr. J. Sudhakar**, for his exceptional organizational and management skills.
- The **student coordinators (A.Prithiviraj, C.Sathish, R.Tamil Iniya)** for their enthusiasm, teamwork, and diligence in ensuring the seamless execution of AGRONA 25.
- All **participants, attendees, and contributors** for their engagement and commitment to the success of the event.

5. Outcome and Future Scope

AGRONA 25 successfully facilitated **technical discussions, interdisciplinary collaboration, and hands-on problem-solving**, allowing students to refine their **practical skills and theoretical knowledge**. The event encouraged innovation and research-based learning, enhancing students' preparedness for **industry and higher academic pursuits**.

Looking ahead, future editions of AGRONA aim to:

- **Incorporate emerging fields** such as **artificial intelligence in manufacturing, robotics, IoT-based automation, and renewable energy systems**.
- **Expand networking opportunities** with industry experts and alumni, enabling students to gain real-world exposure.
- **Enhance workshop-based events**, allowing participants to engage in hands-on learning experiences that align with contemporary industrial trends.

AGRONA 25 was an enriching experience for all attendees, providing a dynamic platform for students to **learn, innovate, and excel** in their respective fields.