

Event Report

- 1) **Name of Event:** TOd - FOD - JOD Workshop
- 2) **Nature of the Event:** Workshop
- 3) **Date:** 19th March 2026
- 4) **Time:** 02:00 PM to 5:30 PM
- 5) **Venue:** Advance Drone Lab and Maker Lab - 2
- 6) **Mode of Event:** Offline session
- 7) **Organized by:** GUIITAR Council, GSFC University, SSIP, Startup Gujarat and IIC, GoI

8) **Objective of the Event:**

- To develop practical understanding of **assemblies, subassemblies and working mechanisms** through systematic disassembly of real products.
- To enable students to **identify design gaps, failure points and scope for improvement** in existing components.
- To provide hands-on training in **3D CAD redesign** using tools such as SolidWorks / AutoCAD / CREO.
- To introduce students to **rapid prototyping technologies** including 3D Printing and LASER Cutting for manufacturing redesigned parts.
- To train students in **re-assembly and functional testing** of improved products.
- To cultivate innovation mind set, problem-solving ability, and industry-relevant TOD-FOD-JOD job skills aligned with real engineering workflows.

9) Resource Persons Involved:

- **Mr. Amit Duggal** – Senior Executive (Technical), GUIITAR Council.
- **Mr. Krish Shah** – Technical Associate, GUIITAR Council.

10) Number of Participants: 20, Annexure – 1

11) Brief of Event :

The TOD–FOD–JOD Workshop on Assembly, Disassembly, and Redesign was designed to provide participants with hands-on exposure to real components and practical engineering processes. The session focused on enabling students to understand product structure, functionality, and design intent through guided activities involving assembly and disassembly. Participants gained valuable insights into how individual components interact within a system, fostering a deeper understanding of engineering design principles.

In addition to exploration, the workshop introduced participants to modern product development tools and technologies, including 3D CAD modelling, 3D scanning, and 3D printing. The overall experience emphasized the complete product development cycle, encouraging innovation, problem-solving, and design thinking. This initiative successfully bridged theoretical knowledge with practical application, enhancing students' technical skills.

Impact Created

- Enhanced practical understanding of different components and their functionality through hands-on assembly and disassembly
- Strengthened design thinking and problem-solving skills by analyzing and redesigning existing products
- Improved technical proficiency in modern tools such as 3D CAD modelling, 3D scanning, and 3D printing
- Increased awareness of the complete product development cycle from concept to prototype
- Boosted student confidence, innovation mindset, and readiness for real-world engineering applications

Outcomes Achieved

- Participants gained hands-on experience in assembling and disassembling systems
- Developed a clear understanding of product design, components, and functional relationships
- Acquired basic skills in 3D CAD modelling, 3D scanning, and additive manufacturing
- Learned the step-by-step process of product development from concept to prototype
- Enhanced analytical thinking, teamwork, and practical problem-solving abilities

Conclusion

The workshop successfully provided a practical learning platform that bridged the gap between theoretical knowledge and real-world application. Participants developed a deeper understanding of different systems, design principles, and modern manufacturing tools. Overall, the session fostered innovation, technical confidence, and a strong foundation for future engineering and product development activities.

12) Important Photographs



Orientation Session



Practical Exposure on TOD FOD JOD Workshop



3D Scanning and Disassembly of components



Group Photograph

Annexure-1

Number of Participants: 20

#	Name	Email	Contact	School	Year	Program
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