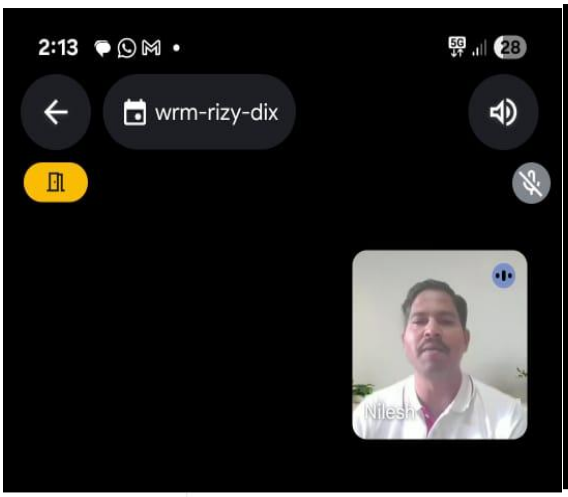
Shree Santkrupa Shikshan Sanstha's

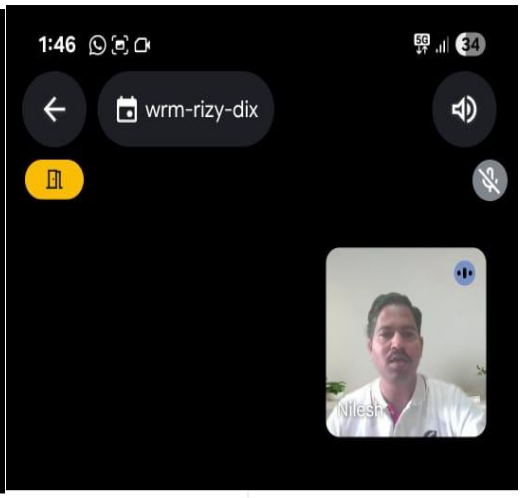
Shree Santkrupa Institute of Engineering and Technology

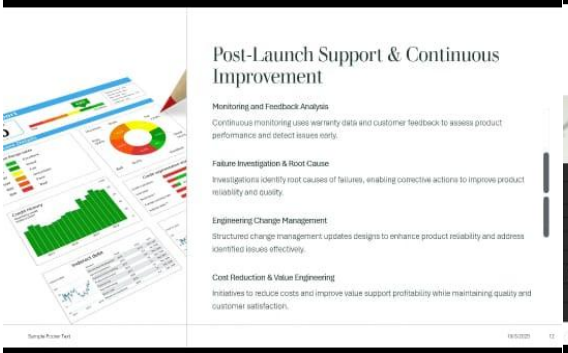
Ghogaon (Shivajinagar), Tal-karad, Dist-Satara

EVENT REPORT

1	Name of the Activity/Event	**Online expert lecture on "Product Life Cycle"**
2	Name of Speaker	Mr. Nilesh S. Pawar (DGM, Product Engineering, Cummins Inc.)
3	Date of Activity/ Event	03/10/2025
4	Organized by	Mechanical Engineering Department, Shree Santkrupa Institute of Engineering and Technology.
5	Name of Association	Shree Santkrupa Institute of Engineering and Technology, Ghogaon.
6	Place of Activity/ Event	Online
7	Type of Activity/ Event	Expert Lecture
8	Activity/ Event Description	Mechanical Engineering Department, Shree Santkrupa Institute of Engineering and Technology Organized an online expert lecture on **"Product Life Cycle",** Friday 03/10/2025 from 1.30 pm to 2.30 pm. Topics Covered 1. Introduction. 2. Stages in PLC. 3. Ideation 4. Resume Building & Interview Skills. 5. Networking and Personal Branding. 6. Upskilling & Reskilling for the Future. 7. Key Takeaways. 8. Participant Feedback. 9. Conclusion.







Post-Launch Support & Continuous Improvement

Monitoring and Feedback Analysis

Continuous monitoring uses warranty data and customer feedback to assess product performance and detect issues early.

Failure Investigation & Root Cause

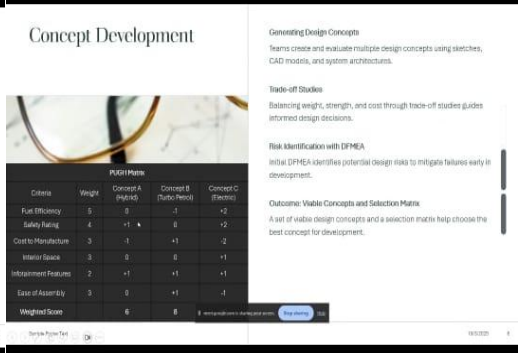
Investigations identify root causes of failures, enabling corrective actions to improve product reliability and quality.

Engineering Change Management

Structured change management updates designs to enhance product reliability and address identified issues effectively.

Cost Reduction & Value Engineering

Initiatives to reduce costs and improve value support profitability while maintaining quality and customer satisfaction.



Concept Development

PUGH Matrix

Criteria	Weight	Concept A (Hybrid)	Concept B (Turbo Petrol)	Concept C (Electric)
Fuel Efficiency	5	0	-1	+2
Safety Rating	4	+1	0	+2
Cost to Manufacture	3	-1	+1	-2
Interior Space	3	0	0	+1
Infotainment Features	2	+1	+1	+1
Ease of Assembly	3	0	+1	-1
Weighted Score		6	8	

Generating Design Concepts

Teams create and evaluate multiple design concepts using sketches, CAD models, and system architectures.

Trade-off Studies

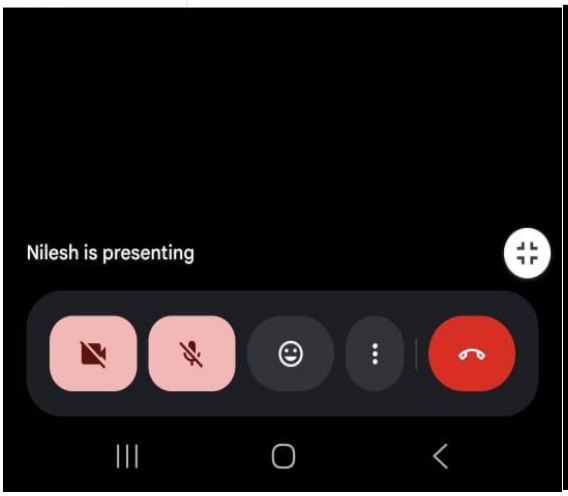
Balancing weight, strength, and cost through trade-off studies guides informed design decisions.

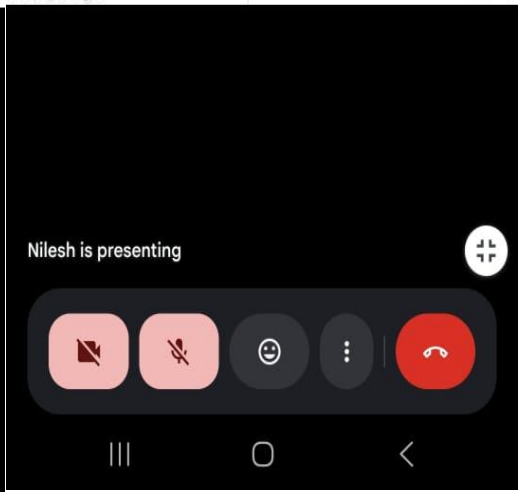
Risk Identification with DFMEA

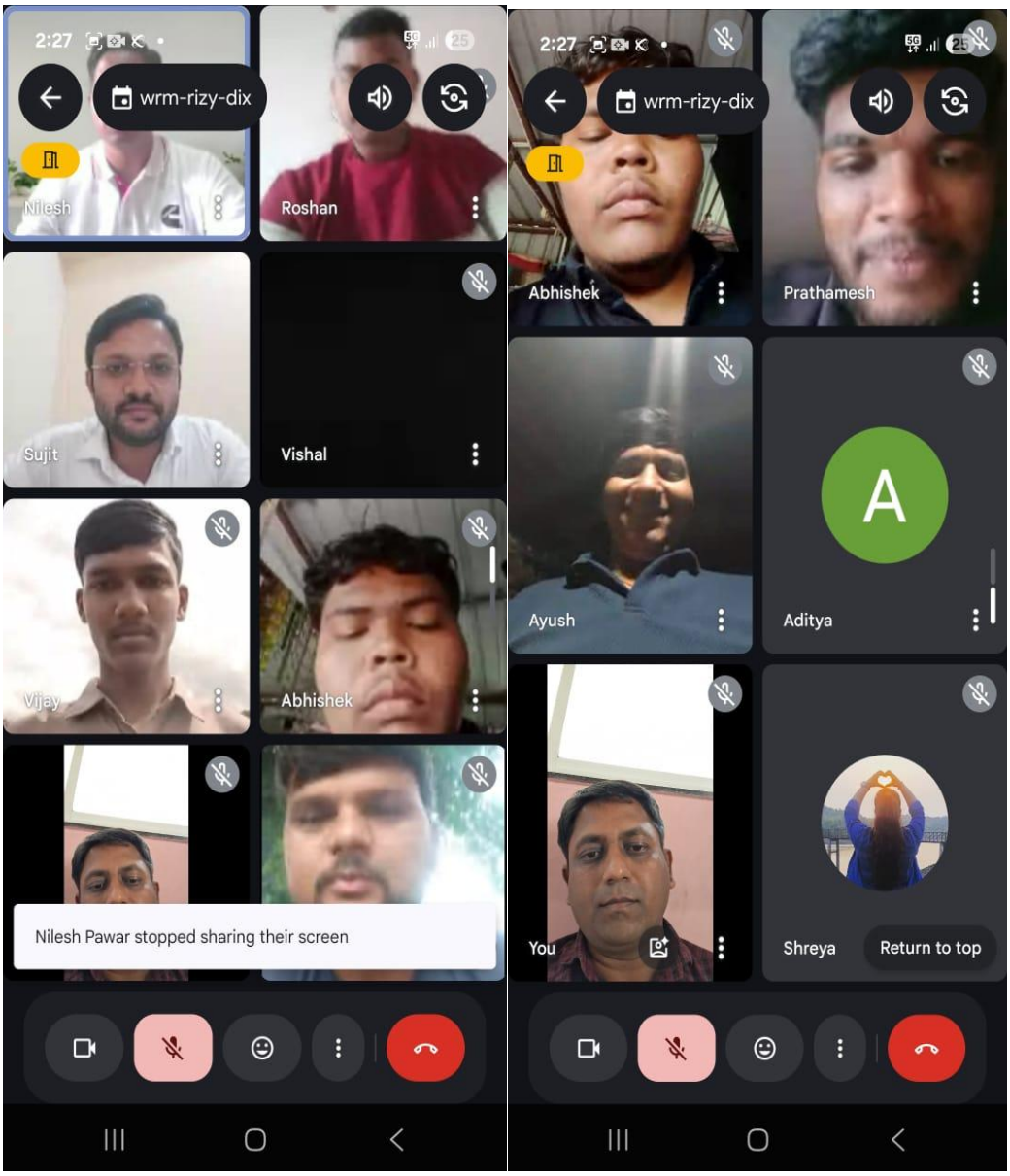
Initial DFMEA identifies potential design risks to mitigate failures early in development.

Outcome: Viable Concepts and Selection Matrix

A set of viable design concepts and a selection matrix help choose the best concept for development.



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Nilesh
Roshan
Sujit
Vishal
Vijay
Abhishek
Nilesh Pawar stopped sharing their screen
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Abhishek
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Ayush
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Aditya
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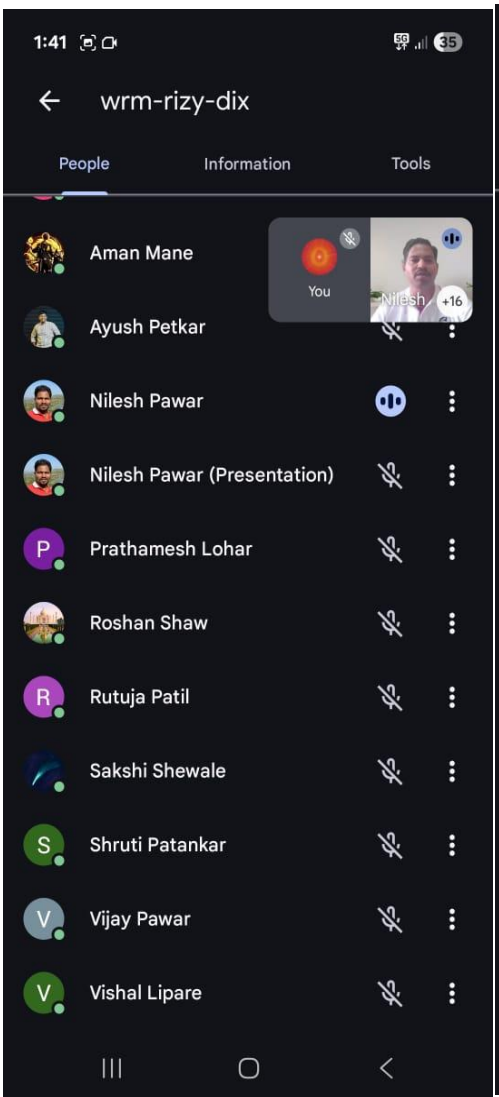
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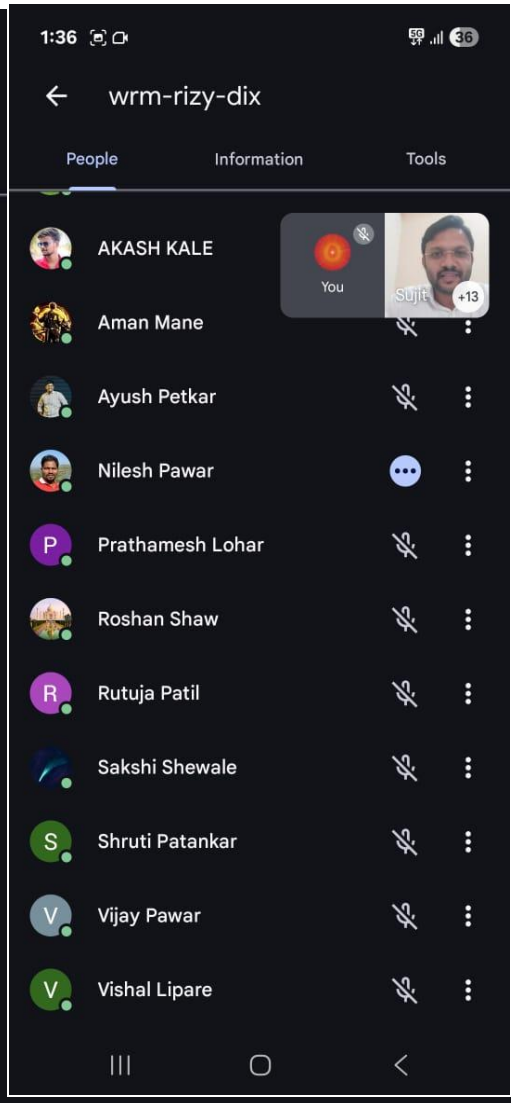
People
Information
Tools
You
Nilesh
+16
Aman Mane
Ayush Petkar
Nilesh Pawar
Nilesh Pawar (Presentation)
Prathamesh Lohar
Roshan Shaw
Rutuja Patil
Sakshi Shewale
Shruti Patankar
Vijay Pawar
Vishal Lipare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People
Information
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Sujit
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AKASH KALE
Aman Mane
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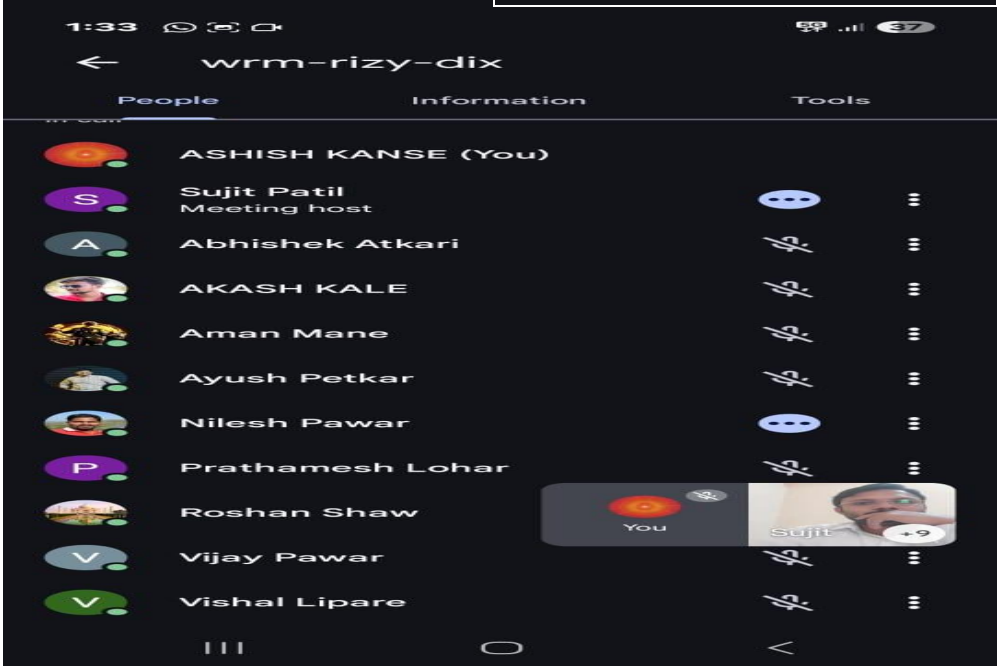
Prathamesh Lohar
Roshan Shaw
Rutuja Patil
Sakshi Shewale
Shruti Patankar
Vijay Pawar
Vishal Lipare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People
Information
Tools
ASHISH KANSE (You)
Sujit Patil
Meeting host
Abhishek Atkari
AKASH KALE
Aman Mane
Ayush Petkar
Nilesh Pawar
Prathamesh Lohar
Roshan Shaw
Vijay Pawar
Vishal Lipare
You
Sujit
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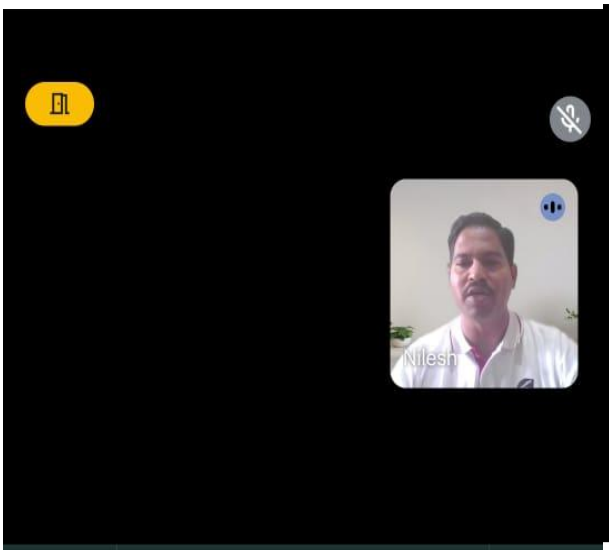
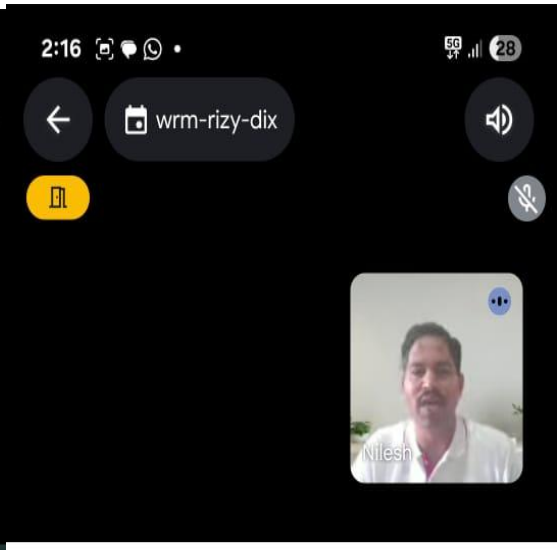

Nilesh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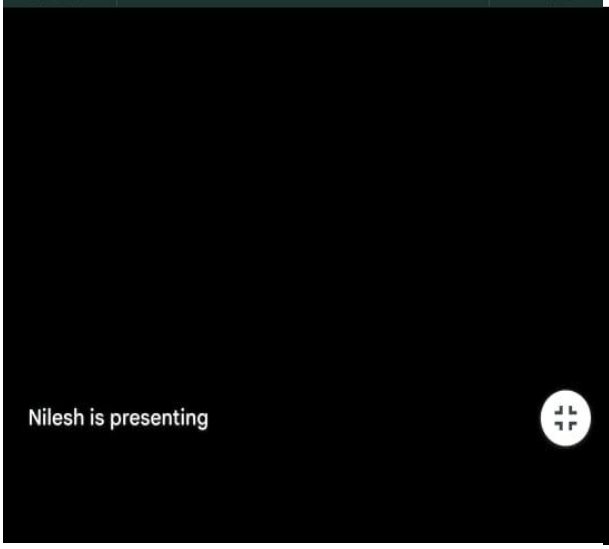
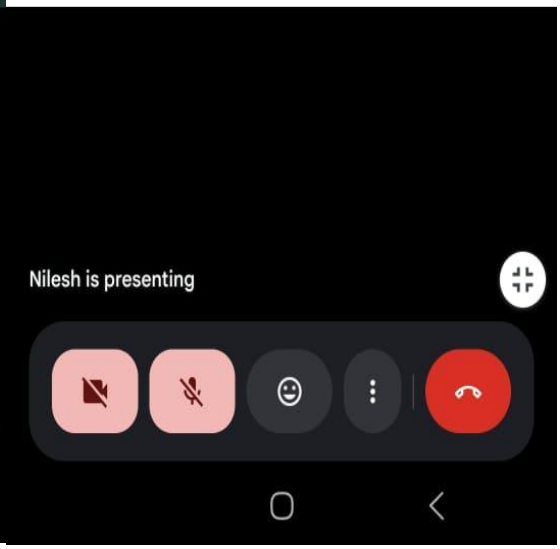
Nilesh


Automotive Product Development Lifecycle


Conclusion & Industry Readiness
Understand each phase of the automotive product lifecycle.
Apply tools like VOCs, DFMEA, PFMEA, Cad (e.g. Creo, SolidWorks, Catia) and CAE simulations (e.g. ANSYS, Hyper mesh etc.) effectively.
Collaboration across design, manufacturing, and quality.
Stay updated with regulatory standards and compliance.
Be proactive in problem-solving and continuous improvement.


Nilesh is presenting


Nilesh is presenting