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K. S. INSTITUTE OF TECHNOLOGY
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#14, Raghuvanahalli, Kanakapura Road, Bengaluru - 560109
Tel: 080-28435722 / 24 Web : www.ksit.edu.in

DEPARTMENT OF MECHANICAL ENGINEERING

REPORT ON INDUSTRIAL VISIT TO

TOYOTA KIRLOSKAR AUTO PARTS Pvt. Ltd (TKAP) ON 28/02/2024

Date of Visit: 28th February 2024

Industry Address: Toyota Kirloskar Auto Parts Pvt. Ltd (TKAP)

21, Bidadi Industrial Area, Bidadi, Bengaluru, Karnataka 562109

Time: 9:00am to 4:00pm

Duration: 6Hours

Sponsoring Bodies / Associating Organization: K S Research & Innovation Foundation (KSRIF)

Brief about the Industry:

Toyota Kirloskar Auto Parts Pvt. Ltd (TKAP) is a powertrain manufacturing ancillary of Toyota, established in May 2004. TKAP is a joint venture between Toyota Motor Corporation, Aisin Corporation and Kirloskar Systems Limited. The product profile includes Manual Transmission, Chassis mounted drive train units and Hybrid Transmissions. TKAP is located on a 60-acre facility in Bidadi, Karnataka. TKAP is equipped with state-of-the-art infrastructure to source, manufacture and supply powertrain solutions to meet global demands at local competitiveness.

Overview of the Visit:

We had the opportunity to visit the Toyota Kirloskar Auto Parts Industry, a leading manufacturer in the automotive sector. The visit provided valuable insights into their operations, production processes, safety practices and commitment to quality.

Key Observations:

1. **Facility Tour:** The manufacturing plant boasts state-of-the-art facilities, including automated assembly lines and advanced machinery. The layout is organized for efficiency, with clearly defined areas for different stages of production.

2. **Quality Control:** Toyota Kirloskar maintains rigorous quality control standards throughout the production process. We observed multiple checkpoints where components were inspected for defects, ensuring adherence to Toyota's renowned quality standards.
3. **Innovative Technologies:** The Company emphasizes innovation and invests in cutting-edge technologies to enhance productivity and product quality. We witnessed the use of robotics and automation like low cost automation in various stages of production, streamlining processes and minimizing human error.
4. **Employee Welfare:** Toyota Kirloskar prioritizes employee welfare and safety. Workers appeared well-trained and equipped with appropriate safety gear. The company also promotes a culture of continuous learning and skill development among its workforce.
5. **Environmental Sustainability:** There was a noticeable emphasis on environmental sustainability, with initiatives in place to reduce waste and minimize environmental impact. The plant utilizes eco-friendly practices and energy-efficient technologies to mitigate its carbon footprint.

Conclusion: Overall, our visit to Toyota Kirloskar Auto Parts Industry was informative and insightful. The company's commitment to excellence, innovation, and sustainability underscores its position as a leader in the automotive industry. We commend their dedication to quality and look forward to witnessing their continued success in the future.

Objectives / Key Highlights:

- Explore the advanced manufacturing technologies, automated assembly lines in vehicle manufacturing.
- Understand the importance of safety standards and sustainable practices in industrial settings.

Participants Details:

Number of Participants:	24
Students (Internal / External):	Internal / 24 Students of 3rd Semester Mechanical Engineering, KSIT
Faculty Participants:	03
	Mr. Anilkumar A, Assistant Professor, MED
	Mr. Ranganath N, Assistant Professor, MED
	Mr. Harish U, Assiatnt Professor, MED

Photos:

Industry Visit to Toyota Kirloskar Auto Parts Pvt. Ltd

At Toyota Kirloskar Auto Parts Pvt. Ltd.

Group Photo with Staff of TKAP

Outcome/ Benefits:

The Industrial Visit to Toyota Kirloskar Auto Parts Pvt. Ltd was a resounding success, offering students a rich learning experience and practical exposure to the automotive industry. The insights gained will not only complement their academic knowledge but also help them to make informed career choices and contribute effectively to the industry in the future.

CO/PO & PSO Mapping:

CO/PO & PSO	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	P011	PO12	PSO1	PSO2
Industry Visit	-	-	-	-	1	-	1	-	1	1	-	1	-	1
Average	-	-	-	-	1	-	1	-	1	1	-	1	-	1

PO5-Modern Tool Usage: Create, select, and apply appropriate techniques, resources, and modern engineering and IT tools including prediction and modeling to complex engineering activities with an understanding of the limitations.

PO7-Environment and Sustainability: Understand the impact of the professional engineering solutions in societal and environmental contexts, and demonstrate the knowledge of, and need for sustainable development.

PO9-Individual and Team Work: Function effectively as an individual, and as a member or leader in diverse teams, and in multidisciplinary settings.

PO10-Communication: Communicate effectively on complex engineering activities with the engineering community and with society at large, such as, being able to comprehend and write effective reports and design documentation, make effective presentations, and give and receive clear instructions.

PO12-Life-long Learning: Recognize the need for, and have the preparation and ability to engage in independent and lifelong learning in the broadest context of technological change.

PSO2- Ability to develop effective communication, team work, entrepreneurial and computational skills.

Mr. Anilkumar A
Assistant Professor, MED

Dr. Girish T R
HOD, MED

Head of the Department
Dept. of Mechanical Engg.
K.S. Institute of Technology
Bengaluru-560109

Dr. Dilip Kumar K
Principal / Director

PRINCIPAL
K.S. INSTITUTE OF TECHNOLOGY
BENGALURU - 560 109.