Kammavari Sangham ® 1952
K. S. INSTITUTE OF TECHNOLOGY
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A REPORT ON ONE DAY INDUSTRIAL VISIT

Place of Visit: SANSERA Engineering Pvt. Ltd. plant 2, jigani, Bangalore.
Date of Visit: 29th August 2025

The Department Mechanical Engineering organized one day industrial visit for 5th Semester students along with faculty members to "SANSERA Engineering Pvt. Ltd. plant 2, jigani, Bangalore.

On 29th Aug 2025, the Mechanical Engineering students of K. S. Institute of Technology had visited Sansera Engineering Pvt. Ltd. Plant 2, Jigani, Bangalore. We assembled in college at 9.00 AM and then proceeded to Sansera Engineering, Plant 2 in a bus. We reached there at 10:20 AM, and they welcomed by Mr. Raghunath (Carporate training, Sansera Engineering Pvt. Ltd.) and his team. Sansera has a comprehensive product and technology portfolio that focuses on high precision forgings and machining of automotives as well as aerospace components. They have 14 manufacturing plants in India, and recently acquired their first overseas plant at Sweden. Mr. Raghunath then gave us an overview about Sansera. At Sansera, they have many in-house activities to ensure quality is not compromised on. They have 38 product families and supply to some of the biggest domestic and international automotive companies. At Sansera, they strongly believe in giving back to the society and have various CSR programs like people & education, healthcare & environment that they identify and then enable their employees to fulfill those needs. After the session with Mr. Raghunath, we were given safety equipment and then divided into a batches of three. Each batch was then taken for a brief tour to the machining and forging floors of the unit. At the forging department we saw the process of how a piece of steel was converted into a connecting rod through forging of the metal at high temperatures. Then those connector rods were further worked on in the machining department as per certain customer specifications. It was an insightful experience which provide us an understanding regarding internal working of an industrial unit. A special thanks to Mr. Raghunath for giving us this opportunity.

Participant details:

No. of participants in total: 36

Students: 33

Faculty – Dr. Saleem Khan, Dr. Nirmala L, & Mr. Palaksha S (Foreman)

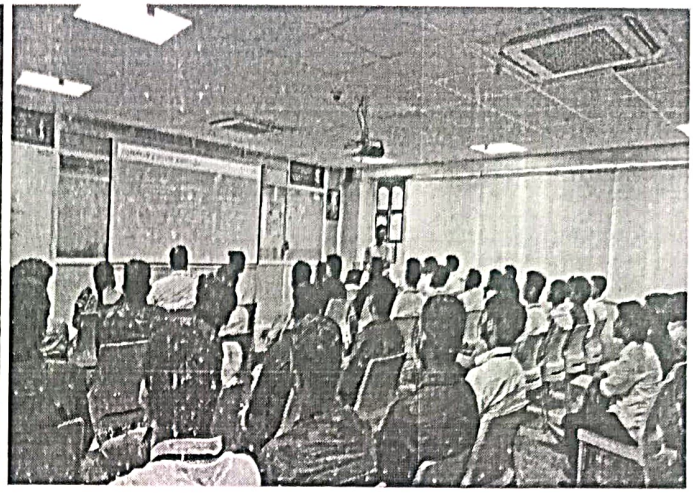
Objectives of the Visit:

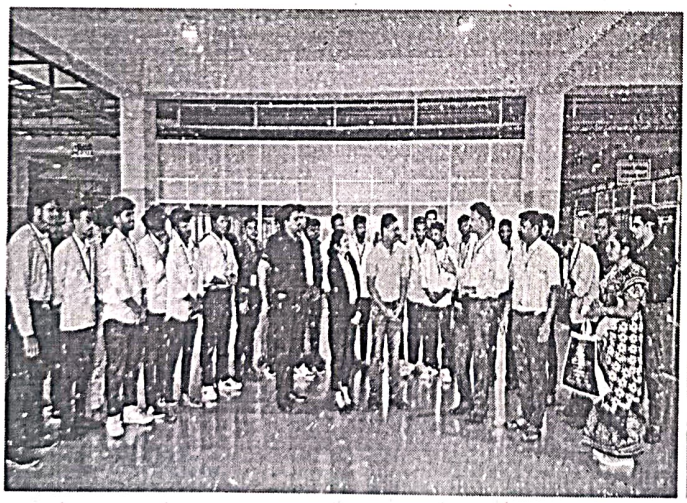
1. To Gain practical knowledge by observing how concepts learned in the classroom are applied in a real industrial setting.
2. To Learn about the internal working of companies, the various sectors of industry (manufacturing, design, quality, marketing), and the flow of operations.
3. To understand different roles, responsibilities, and career opportunities within the industry, helping them decide on their future area of interest or job.
4. To improve interpersonal, communication, teamwork, and leadership skills through interactions with industry professionals.

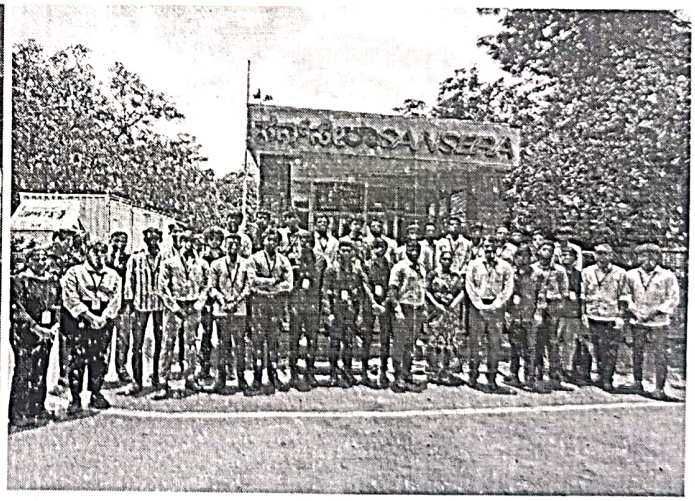
Outcomes of the visit:

1. Students gain hands-on experience by observing how theoretical concepts are applied in a real work environment, which helps reduce the learning gap between classroom and industry.
2. Students enhance crucial soft skills such as communication, teamwork, leadership, problem-solving, and interpersonal skills through interactions with professionals.
3. Students can build valuable relationships with industry professionals, experts, and potential employers, which can lead to internships and job placements.

Photos:







We would like to thank our Management, Principal and HOD of Mechanical engineering Department for arranging this industrial visit which was very informative and useful for the students. Also, we thank transport department for arranging bus facility for the industrial visit.

Mapping of Industrial visit with PO'S and PSO'S

Program	PO1	PO2	PO3	PO4	PO5	PO6	PO7	PO8	PO9	PO10	PO11	PO12	PSO 1	PSO 2
Industrial Visit	2	2	1	1	2	1	2	1	1	1	1	1	3	1

PROGRAM OUTCOMES (POs)

Engineering Graduates will be able to:

1. **Engineering knowledge:** Apply the knowledge of mathematics, science, engineering fundamentals, and an engineering specialization to the solution of complex engineering problems.

2. **Problem analysis:** Identify, formulate, review research literature, and analyze complex engineering problems reaching substantiated conclusions using first principles of mathematics, natural sciences, and engineering sciences.

3. **Design/development of solutions:** Design solutions for complex engineering problems and design system components or processes that meet the specified needs with appropriate consideration for the public health and safety, and the cultural, societal, and environmental considerations.

4. **Conduct investigations of complex problems:** Use research-based knowledge and research methods including design of experiments, analysis and interpretation of data, and synthesis of the information to provide valid conclusions.

5. **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.

6. **The engineer and society:** Apply reasoning informed by the contextual knowledge to assess societal, health, safety, legal and cultural issues and the consequent responsibilities relevant to the professional engineering practice.

7. **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.

8. **Ethics:** Apply ethical principles and commit to professional ethics and responsibilities and norms of the engineering practice.

9. **Individual and team work:** Function effectively as an individual, and as a member or leader in

diverse teams, and in multidisciplinary settings.

10. **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.

11. **Project management and finance:** Demonstrate knowledge and understanding of the engineering and management principles and apply these to one's own work, as a member and leader in a team, to manage projects and in multidisciplinary environments.

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

PSO1: Ability to apply concept of mechanical engineering to design a system, a component or a process/system to address a real world challenges

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

Justification:

PO1, PO2, PO5- Students apply engineering knowledge, analyze processes, and observe modern tools in use.

PO1, PO4, PO5- Gain practical insights and learn to investigate equipment functionality and usage.

PO6, PO7, PO8- Awareness of health, safety, environmental impact, and ethics in industrial environment.

PO9, PO10- Develop communication skills and teamwork through discussions and interactions.

PO11- Learn basics of project management, scheduling, and resource allocation in industry settings.

PO2, PO3- Identify challenges faced in industry and think about design improvements or solutions.

PO7- Observe implementation of sustainable practices and environmental considerations.

PO12- Realizing the need to update knowledge and skills through continuous learning from industry trends.

1. (Dr. Saleem Khan)

2. (Dr. Nirmala L)

Industrial visit coordinator

01/09/2025.

HOD ME

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