A Report on Industrial Visit to "Bhuwalka Castings & Forging Pvt Ltd, Bengaluru" Organized by Department of Computer Science & Engineering (Cyber Security) on 07.05.2026

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Total No. of Participants: 35 Students
Mode of Conduct: Offline

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One-day Industrial Visit to Bhuwalka Castings & Forging Pvt Ltd (BCFL) was organized for the I Year B.Tech CSE(CS) students on 7th May 2026. The Industrial Visit to CMTI started at 06.15 AM and reached CMTI by 10.00 AM. The students along with faculty members visited the BCFL facilities between 10.00 AM to 02.00 PM.

ABOUT BCFL:

Bhuwalka Castings & Forging is a part of the US$ 150 million Bhuwalka Premier Group of companies. Bhuwalka Premier Group of companies has been a leading name in South India for TMT bars and structural steel since 1989. Headquartered in Bangalore the group has manufacturing facilities in Karnataka, Andhra Pradesh, Tamil Nadu and Sri Lanka. The following are the products manufactured by all the group companies.

Established in the year 2006, Bhuwalka Castings began its humble journey with the production capacity of only 4000 MT annually with very basic infrastructure to understand the market and customer requirements. In 2010 expansion project was undertaken and with the effort of the management and the team, Bhuwalka Castings had increased its annual production capacity from 4000 MT to 18,000 MT by introducing state-of-the-art Technology, infrastructure and machinery. In 2018 Full Mould process (Lost Foam Method) was introduced at Bhuwalka Castings & Forging to cater most complex geometry with low volume requirement such as Press tool dies, Machine tools and other engineering applications.

Places Visited in BCFL:

The industrial visit to Bhuwalka Castings & Forging Pvt. Ltd. provided students with valuable practical exposure to modern manufacturing processes and industrial operations. During the visit, students observed the complete workflow involved in casting and forging production, starting from raw material selection to the final finished products. The company experts explained various techniques used in metal casting, heat treatment, machining, quality inspection, and finishing operations. Students gained an understanding of how heavy engineering components are manufactured with high precision and industrial standards.

The visit also helped students learn about advanced machinery, automation systems, and safety measures followed in large-scale manufacturing industries. Engineers at the company demonstrated the importance of process planning, production management, and quality control in maintaining efficiency and product reliability. Students were introduced to testing methods such as hardness testing, dimensional inspection, and defect analysis used in the industry.

In addition to technical knowledge, the visit enhanced students' awareness of workplace discipline, teamwork, industrial ethics, and professional communication. They understood the practical applications of theoretical concepts studied in subjects such as manufacturing technology, materials science, mechanical engineering, and industrial engineering. Interaction with industry professionals motivated students to explore career opportunities in the manufacturing and production sectors.
Overall, the industrial visit served as an effective platform for experiential learning, bridging the gap between academic knowledge and real-world industrial practices while improving students' technical skills, confidence, and industry readiness.

Conclusion:

In conclusion, the industrial visit to Bhuwalka Castings & Forging Pvt. Ltd. provided students with meaningful practical exposure to casting, forging, machining, and quality control processes followed in modern manufacturing industries. The visit helped students understand the real-time application of engineering concepts, industrial safety practices, and production

management techniques. Interaction with industry experts improved their technical knowledge, professional awareness, and understanding of workplace culture. The experience bridged the gap between classroom learning and industrial practice, motivating students to develop industry-oriented skills and preparing them for future careers in manufacturing and engineering sectors.

Outcomes of Industrial Visit:

- Students understood practical casting and forging manufacturing processes used in heavy engineering industries.
- Students gained exposure to industrial machinery, automation systems, and workplace safety practices.
- The visit enhanced knowledge of quality control, testing methods, and production management techniques.
- Interaction with industry professionals improved students' technical awareness and professional communication skills.
- The industrial visit bridged the gap between theoretical learning and real-world industrial applications.