



Koneru Lakshmaiah Education Foundation

(Category -1, Deemed to be University estd. u/s. 3 of the UGC Act, 1956)

Accredited by **NAAC** as 'A++' ♦ Approved by **AICTE** ♦ **ISO 21001:2018 Certified**

Campus: Green Fields, Vaddeswaram - 522 302, Guntur District, Andhra Pradesh, INDIA.

Phone No. +91 8645 - 350 200; www.klef.ac.in; www.klef.edu.in; www.kluniversity.in

Admin Off: 29-36-38, Museum Road, Governorpet, Vijayawada - 520 002. Ph: +91 - 866 - 3500122, 2576129

Department of Mechanical Engineering

A.Y 2024-2025, Even Semester

Automobile Club Activity Report on “Design of Shafts”

The Automobile Club, under the SAE (Society of Automotive Engineers) body, recently organized a technical session on the "Design of Shafts" on 20-02-2025 at 09:30 A.M in CAD Lab (M215) focusing on its significance in automotive engineering. The session covered fundamental concepts such as material selection, stress analysis, and failure criteria, emphasizing the role of shafts in power transmission. Experts highlighted key design considerations, including torsional strength, bending moments, fatigue resistance, and critical speed determination. Various shaft types, such as solid and hollow shafts, were analyzed in terms of efficiency and application. Advanced computational tools and software, like Finite Element Analysis (FEA), were demonstrated to optimize shaft designs for real-world applications. The session also included case studies on high-performance automotive shafts, addressing weight reduction strategies and material innovations. III Year students engaged in interactive discussions and hands-on design exercises, enhancing their understanding of industry standards and manufacturing techniques. This initiative by the Automobile Club provided aspiring engineers with practical exposure to modern shaft design methodologies, bridging the gap between theoretical knowledge and industrial applications. The session reinforced the importance of precision engineering in improving vehicle performance, reliability, and safety.



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Geotagged photos took during the event:





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Vaddeswaram, Andhra Pradesh, India

Cjrf+932, K L University, Vaddeswaram, Andhra Pradesh 522303, India

Lat 16.440832° Long 80.622738°

20/02/2025 10:22 AM GMT +05:30

All III Year B.Tech Mechanical Engineering students attended the event and supported by faculty Dr. P. Raj Kumar and Dr. P. Kasi Visweswara Rao

Prepared by

Approved by