



Newsletter: December 2022 – May 2023
Department of Automobile Engineering

NEWSLETTER

Welcome to Volume 2 of our expanded Tech Torque Newsletter. This issue tracks the incredible surge in professional networking, advanced software proficiency, and community outreach achieved by our department from Winter 2022 through Spring 2023. Our focus remains steadfast on bridging academic rigor with real-world industry demands.

FOUNDATIONS & DIGITAL ENGINEERING

Basic Vehicle Components Workshop

DECEMBER2,2022 | 40PARTICIPANTS

Kicking off the winter session, the department hosted an intensive introductory workshop detailing fundamental vehicle architecture. The curriculum methodically broke down complex sub-assemblies, providing 40 students with a tactile understanding of drivetrain layouts, suspension geometries, and steering linkages. By moving beyond textbook diagrams to physical teardowns, students observed the synergistic relationship between disparate mechanical systems.

STRATEGIC BENEFIT & OUTCOME

Demystifies highly complex mechanical systems for newer students, providing a robust, practical foundation that accelerates their comprehension of advanced automotive engineering subjects in subsequent semesters.

Autodesk Fusion 360 Boot Camp

DECEMBER3,2022 | 25PARTICIPANTS

To maintain pace with modern manufacturing paradigms, 25 selected students underwent a rigorous technical software training camp focused on Autodesk Fusion 360. This boot camp transitioned students from basic 2D drafting into sophisticated 3D parametric modeling, digital assembly stress-testing, and generative design principles used in contemporary automotive prototyping.

INDUSTRY PLACEMENTS & MARKET DYNAMICS

Placement Drive: Lap 47 Performance Studio

DECEMBER 9, 2022 | 60 CANDIDATES

Bridging the academic-to-career pipeline, the department successfully hosted an exclusive recruitment and placement drive with Lap 47 Performance Studio. Focusing on the high-performance and motorsport tuning sector, 60 ambitious candidates participated in rigorous technical interviews and practical assessments. Candidates were evaluated on their knowledge of ECU remapping, aftermarket forced induction systems, and performance telemetry analysis.

STRATEGIC BENEFIT & OUTCOME

Directly translates academic success into lucrative career opportunities. Securing placements in niche sectors like performance tuning proves the robust nature of our curriculum and motivates the wider student body.

Inauguration & MOU Signings

DECEMBER 15, 2022 | 70 PARTICIPANTS

A landmark day for the department, marking the formal inauguration of the Torque Activities for the academic year. The highlight was the execution of high-level Memorandums of Understanding (MOUs) with Knit Start Ventures Pvt Ltd and the Carnival Group of Companies, Mumbai. The ceremony, attended by 70 key stakeholders, established formal frameworks for collaborative research, guest lecture series, and structured industrial visits.

STRATEGIC BENEFIT & OUTCOME

Secures crucial industry pipelines. These MOUs guarantee students consistent access to internships, live capstone projects, and continuous mentorship from established corporate entities.

Electric Vehicles: Financial Perspective

JANUARY 30, 2023 | KSP SEMINAR

While engineering focuses on mechanics, industry leaders must understand markets. This highly specialized KSP seminar shifted the lens from battery chemistry to economics, analyzing the financial models driving the global Electric Vehicle (EV) industry. Discussions covered total cost of ownership (TCO) parity, lithium supply chain volatility, government subsidy impacts, and the economic viability of decentralized charging infrastructure.

COMMUNITY OUTREACH & CAMPUS SAFETY

105

WOMEN ENGAGED IN THE SPECIALIZED "KNOW YOUR VEHICLE" CAMPAIGN

Know Your Vehicle Campaigns

MARCH 28 & MAY 15, 2023

Operating on the belief that basic mechanical knowledge should be accessible to everyone, the department launched massive public awareness campaigns demystifying vehicle operations. While the March 28th general campaign drew 40 participants, the specialized May 15th "Campaign to Ladies" resulted in a record-breaking engagement of 105 participants. Attendees were taught emergency tire changes, fluid checks, dashboard warning diagnostics, and defensive driving basics.

STRATEGIC BENEFIT & OUTCOME

Promotes vital community safety and self-reliance while actively dismantling technical barriers and stereotypes, empowering female drivers with the confidence to handle mechanical emergencies independently.

Trainers Training Program

FEBRUARY 28, 2023 | 50 PARTICIPANTS

To scale the impact of our outreach programs, the department executed a rigorous "Train the Trainer" initiative. 50 advanced engineering students were equipped not just with mechanical knowledge, but with pedagogical techniques—learning how to effectively break down and communicate complex automotive concepts to laypeople without relying on alienating technical jargon.

STRATEGIC BENEFIT & OUTCOME

Exponentially multiplies the department's educational impact. Simultaneously, it refines the communication and leadership skills of our engineering students, attributes highly valued in professional environments.

Safe Campus & PACE Initiatives

PROFESSIONAL CERTIFICATION & NETWORKING

Public Sector & Competitive Exam Prep

MARCH 27 & APRIL 17-18, 2023

To support students aiming for public service and higher education, the department organized a series of intensive preparatory programs. On March 27, a Competitive Exam Training Program guided 26 students through strategies for GATE and associated technical clearances. This was followed by back-to-back, highly specialized AMVI (Assistant Motor Vehicle Inspector) Training Programs on April 17 and 18, tailoring instruction specifically for state motor vehicle department examinations.

STRATEGIC BENEFIT & OUTCOME

Provides rigorous, specialized coaching that ensures students excel in highly competitive government examinations and post-graduate qualifiers, diversifying their long-term career stability.

Industry & Dealer Networking Forums

APRIL 5 & APRIL 25, 2023

Spring concluded with a strong push for commercial alignment. The Vehicle Dealers Association Meeting on April 5 brought 35 local automotive commerce stakeholders to campus, bridging academic capabilities with regional sales and service challenges. Later, on April 25, an exclusive Industry Institute Interaction Program allowed 18 core students and faculty members to engage deeply with active industry professionals to discuss emerging consumer trends and after-sales service technologies.

STRATEGIC BENEFIT & OUTCOME

Directly aligns our academic curriculum with real-time commercial market needs. These forums foster direct mentorships and ensure our graduates are attuned to the business realities of the automotive sector.

KSP Safety Tips for Safe Travel

FEBRUARY 27, 2023 | 10 PARTICIPANTS

A targeted informational session focusing on personal travel safety protocols. The session covered fatigue management during long drives, emergency protocols during vehicle breakdowns on highways, and proper payload distribution for stability.