

AUTO 'PULSE'

AUTOMOBILE ENGINEERING NEWSLETTER

AUTOMOBILE ENGINEERING

JUNE 2024



LEARN
FOUNDATIONS
FOR TOMORROW



PRACTICE
SKILLS
IN ACTION



INNOVATE
IDEAS
IN MOTION



GROW
TOWARDS
A BETTER TOMORROW

VEHICLES
TECHNOLOGIES
PEOPLE
A SUSTAINABLE
TOMORROW



DRIVING
INNOVATION
FOR A
BRIGHTER
TOMORROW

FACULTY DEVELOPMENT & DEPARTMENTAL GROWTH

During the first half of 2024, the Automobile Engineering Department strengthened its focus on outcome-based education and industry-oriented skill development through two two-day Faculty Development Programmes (FDPs). Both programmes were led by Dr. Vikas Rai Bhatnagar, Chief Executive Officer, Hyperspace Action Research Services.



OUTCOME BASED EDUCATION: MAPPING COs AND PSOs.
The two-day FDP focused on the relationship between Course Outcomes (COs), PSOs and curriculum planning. The programme provided faculty with an opportunity to examine outcome mapping and improve alignment between course delivery, assessment and programme-level expectations.



OUTCOME BASED EDUCATION: ALIGNING SKILLS WITH INDUSTRY NEEDS.
The second two-day FDP focused on connecting educational outcomes with the skills expected by industry. Discussions centred on identifying relevant technical and professional competencies and strengthening curriculum delivery so students are better prepared for changing workplace requirements.

RESOURCE PERSON
Dr. Vikas Rai Bhatnagar
Chief Executive Officer
Hyperspace Action Research Services
FDP AT A GLANCE

PROGRAMMES	DURATION	FOCUS
2 FDPs	2 days each	OBE • CO/PSO • Industry Skills

AUTOMOBILE NEWSROOM

JANUARY – JUNE 2024 | NEWS REPORTS

05 JAN 2024



BHARATMOBILITY GLOBAL EXPO 2024 ANNOUNCED AS A MAJOR MOBILITY SHOW

NEWS REPORT: The Bharat Mobility Global Expo 2024 was positioned as a large-scale mobility exhibition bringing together vehicle manufacturers, component companies, EV infrastructure, battery technology, hydrogen and other mobility solutions. The exhibition was scheduled for 1–3 February in New Delhi, with organisers highlighting more than 600 exhibitors from 50+ countries. [\[cite turn0search0\]](#)

16 JAN 2024



AUTO PLI CONCLAVE HIGHLIGHTS ADVANCED AUTOMOTIVE TECHNOLOGY MANUFACTURING

NEWS REPORT: The Ministry of Heavy Industries held an Auto PLI Conclave to discuss the Production Linked Incentive scheme for automobiles and auto components. The ministry said the scheme was intended to encourage domestic manufacturing of advanced automotive technology products and strengthen the automotive manufacturing value chain. [\[cite turn0search1\]](#)

01 APR 2024



BHARAT MOBILITY GLOBAL EXPO SHOWCASES ELECTRIC, CONNECTED AND ALTERNATIVE-ENERGY MOBILITY

NEWS REPORT: Bharat Mobility Global Expo 2024 brought vehicle manufacturers and component suppliers together with displays covering electric vehicles, batteries, charging, connectivity, road safety and alternative drive systems. Official information described participation from more than 800 exhibitors from 50+ countries and more than 28 vehicle manufacturers. [\[cite turn0search2 turn0search3\]](#)

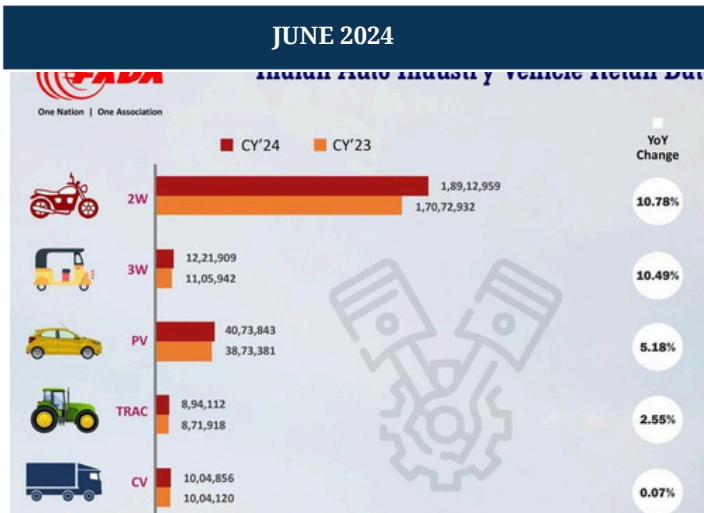
01 APR 2024



ELECTRIC MOBILITY PROMOTION SCHEME (EMPS) BEGINS

NEWS REPORT: The Electric Mobility Promotion Scheme 2024 began on 1 April following the end of FAME II. The scheme was designed to support electric two- and three-wheelers and was planned for the four-month period ending 31 July 2024, marking another stage in India's policy support for electric mobility.

JUNE 2024



INDIA'S AUTOMOTIVE MARKET CONTINUES TO EXPAND WHILE EV SALES SHOW A MIXED PICTURE

NEWS REPORT: Industry data for the first half of 2024 showed growth across several vehicle categories, while electric passenger-vehicle sales also increased year-on-year during January-June. At the same time, June monthly EV passenger-car sales were lower than June 2023, illustrating how different vehicle segments were moving at different speeds. [\[cite\]turn0search4](#)

ENGINEERING & SCIENCE CALENDAR

The June 2024 edition recognises important science, engineering, technology and environment observances that connect naturally with automobile engineering education.

28 FEBRUARY	NATIONAL SCIENCE DAY A day to encourage scientific thinking, experimentation and curiosity — essential foundations for engineering problem solving.
04 MARCH	WORLD ENGINEERING DAY An international observance recognising engineering’s contribution to sustainable development and resilient communities.
11 MAY	NATIONAL TECHNOLOGY DAY An Indian observance highlighting technological achievement, innovation and the role of young people in developing new solutions.
17 MAY	WORLD TELECOMMUNICATION AND INFORMATION SOCIETY DAY Relevant to connected vehicles, telematics, vehicle communication and intelligent transportation systems.
05 JUNE	WORLD ENVIRONMENT DAY A major sustainability observance connecting with cleaner mobility, emissions reduction, circular economy and responsible engineering.

THE AUTOMOTIVE ENGINEER OF TOMORROW



Practical learning remains central to developing industry-ready automobile engineering professionals.

ELECTRIFIED POWERTRAINS

Batterypacks,BMS,inverters,electricmotors,charging systems and high-voltage safety are increasingly important areas of automotive practice.

SMART DIAGNOSTICS

Modernservicetechniciansworkwith scan tools, sensors, ECUs, vehicle networks, data interpretation and condition-based diagnostics.

OUTCOME-BASED LEARNING

ClearCO–PSOmappinghelpsdepartmentsconnect classroom teaching and assessment with programme expectations and measurable student learning.

INDUSTRY ALIGNMENT

Understandingcurrent industryneeds helps students identify the skills required in manufacturing, service, diagnostics, EV operations,component industries and emerging mobility sectors.