

HOLY GRACE POLYTECHNIC COLLEGE

DEPARTMENT OF AUTOMOBILE ENGINEERING

LEARN | INNOVATE | DRIVE | TRANSFORM

VOLUME

8

ISSUE

2

DECEMBER 2025

AUTO PULSE

DEPARTMENT NEWS LETTER

*Driving
Knowledge
Towards a
Sustainable
Future*



AUTOMOTIVE
TECHNOLOGY



SUSTAINABLE
MOBILITY



SKILLED
PROFESSIONALS



BRIGHTER
TOMORROWS

PEOPLE | IDEAS | TECHNOLOGY
FOR A BETTER TOMORROW

VISION

To generate value for students and other stakeholders in Automobile Engineering by consistently working towards the overall development of students, attaining an all-round in academic excellence, and promoting professional skills, social responsibilities and co-curricular activities.

MISSION

M1: To ensure significant engagement in automobile engineering by imparting contemporary knowledge to students.

M2: To develop industry ready students by knowing the present needs of Automotive sector.

M3: Promote social responsibility and cultivate entrepreneurial skills within the automobile industry.

EDITOR'S NOTE

The 2025 edition of AUTO PULSE closes with a clear message from the year's learning activities: automotive technology is increasingly integrated. Diagnostic tools, electric mobility and BS-VI systems demand technicians and engineers who can understand the complete vehicle rather than isolated components.



THREE PRACTICAL LEARNING MOMENTS



23.06.2025

ONE-DAY WORKSHOP ON ADVANCED AUTOMOTIVE DIAGNOSTIC TOOL HANDLING WORKSHOP

Resource person: Akhil K Krishnan • Manager – Business Development & Training, M-KAT AUTO LLP

The workshop focused on the practical use of advanced diagnostic tools in modern vehicle service. The programme connected classroom concepts with real diagnostic workflows, helping students understand scan-tool based fault identification and the changing skill requirements of automotive service.

09.07.2025

EV AWARENESS DRIVE / ELECTRIC VEHICLE DAY SEMINAR

Resource person: Ajay Kumar • TATA.ev, Thrissur

The seminar brought electric mobility into the student learning environment, highlighting the transition from conventional powertrains to electric vehicles. The session provided an opportunity to discuss EV technology, awareness, operation and the emerging role of technicians in electrified vehicle service.

06.08.2025

TECHNOLOGIES IN BS-VI TWO-WHEELERS WORKSHOP

Resource person: Praveen Balu • AutoMonks, Thrissur

The workshop addressed technologies used in BS-VI compliant two-wheelers and their implications for diagnosis and service. The programme helped students relate emission-control technology, electronic systems and modern two-wheeler maintenance to workshop practice.

GRADUATION DAY

The reference newsletter records Graduation Day at the MBA Seminar Hall on 5 July 2025, celebrating graduating students and their academic journey.

ORIENTATION PROGRAM

The 21 July orientation welcomed new students and featured keynote guidance from Mr. Sanju P. Cherian and industry insights from Mr. Sheen Antony, Managing Director of Pilosmith (India) Pvt. Ltd.

INTERCLASS FOOTBALL MATCH

The college interclass football match brought students from different departments together in a programme centred on teamwork, sportsmanship and unity.

ONAM CELEBRATION 2025

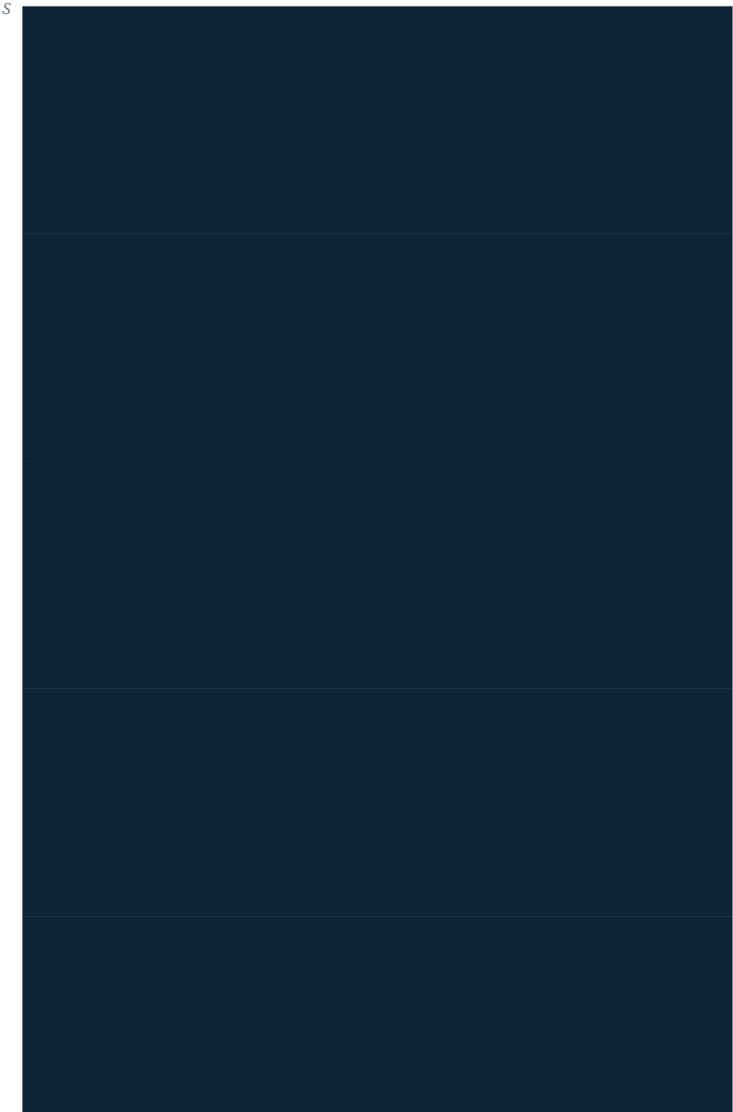
The reference newsletter records a two-day Onam celebration bringing students, faculty and staff together around Kerala's cultural heritage.

TECH EXPO 2025

The Tech Expo showcased student projects and practical engineering applications, including renewable-energy models and automation systems.



2025: INDIA'S AUTOMOTIVE YEAR IN REVIEW



BS-VI OBD-II PHASE II FOR TWO-WHEELERS

SIAM's 2024-25 annual report notes adoption of BS-VI OBD-II Phase II emission standards for two-wheelers from 1 April 2025. For automobile students, this reinforces the importance of electronic diagnostics, emissions monitoring and calibration in modern two-wheeler service.

E20 COMPLIANCE BECOMES PART OF THE NEW VEHICLE LANDSCAPE

SIAM reports that gasoline-powered vehicles manufactured from 1 April 2025 are fully compliant with E20 fuel. The development links engine calibration, fuel-system compatibility and emissions engineering with evolving fuel standards.

PASSENGER VEHICLE MARKET SHOWS STRONGER FESTIVE MOMENTUM

SIAM reported September 2025 passenger-vehicle domestic sales of 3,72,458 units and October sales of 4,60,739 units. October passenger-vehicle sales were reported as the highest-ever October dispatches, with the festive period contributing to demand.

NOVEMBER AUTO SALES REACH NEW MONTHLY HIGHS IN KEY SEGMENTS

SIAM reported November 2025 passenger-vehicle sales of 4,12,405 units, two-wheeler sales of 19,44,475 units and three-wheeler sales of 71,999 units. The association described these as the highest-ever November sales for those segments.

EV SKILLS BECOME A CORE AUTOMOTIVE LEARNING AREA SIAM's 2025 EV talent report identifies EV skills and future talent development as an important industry focus. For students, this points toward growing relevance of battery systems, charging, high-voltage safety, diagnostics, electronics and software-enabled vehicle systems.

WHAT TODAY'S AUTOMOBILE TECHNICIAN NEEDS TO KNOW

By SYTHYA P S. LEC.AU

01

DIAGNOSTICS

Scan tools • DTC interpretation • live data • actuator tests • calibration

02

ELECTRIFICATION

EV architecture • battery packs • BMS • charging • HV safety • service procedures

03

EMISSIONS & BS-VI

Sensors • ECU control • OBD • emission after-treatment • two-wheeler diagnostics



FROM EVENT TO WORKSHOP

STUDENT TAKEAWAY | Automobile Engineering Department

The three programmes collectively connect diagnostic practice, electric mobility awareness and BS-VI two-wheeler technology. Together, they reflect a service environment where mechanical understanding must be combined with electronics, data interpretation, safety procedures and updated industry practices.