



VIT[®]

Vellore Institute of Technology
(Deemed to be University under section 3 of UGC Act, 1956)

Industry Academia Conclave 2026



LiDAR SCAN

AI VISION

SENSOR FUSION

SMART NAVIGATION



OFFLINE HANDS-ON WORKSHOP ON

THEME: Empowering Next-Gen Silicon Intelligence
Through Industry-Academia Synergy

A Complete Insight Program
into Autonomous Vehicle
Design – From Scratch to
Advance

AUTONOMOUS VEHICLE DESIGN

08 SEPTEMBER 2026 (FN SESSION)



DESIGN



SENSOR INTEGRATION



PERCEPTION & AI



PLANNING & CONTROL



TESTING & VALIDATION



PARTICIPANTS

UG/PG Students &
Research Scholars
(Internal & External)



REGISTRATION FEE

Rs.236/-
(inclusive of
18% GST)



LAST DATE FOR
REGISTRATION

07 September 2026



REGISTRATION LINK

[https://
events.vit.ac.in](https://events.vit.ac.in)

RESOURCE PERSON



Shri. Malayappan M,
Founder and Director,
Pantech Solutions,
Chennai.

TECHNICAL AGENDA – Hands-On | Application Focused | Future Ready



Autonomous Vehicle Fundamentals



Introduction to CARLA Simulator



CARLA Environment & Vehicle Setup



Vehicle & Sensor Integration



Camera & LiDAR Perception



Sensor Fusion & Localization



Path Planning & Navigation



Vehicle Control & PID



End-to-End Autonomous
Driving Demo

COORDINATORS

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