

RV - TOYOTA CENTRE OF EXCELLENCE IN AUTOMOTIVE ENGINEERING



Internship Modules for Engineering students

- M1. Assembly and Disassembly of 4-Cylinder Engine: Hands-on experience with engine components, focusing on the assembly and disassembly process, troubleshooting, and maintenance techniques.
- M2. CRDI (Common Rail Direct Injection) System Analysis: Detailed study of CRDI technology, including fuel injection mechanisms, system diagnostics, and performance optimization.
- M3. Electrical System Wiring and Diagnostics: Interns will work on the electrical mockup layout, learning about automotive wiring, circuit design, fault detection, and repair.
- M4. Automotive Sensor Technology: Exploration of various sensors used in modern vehicles, their roles in safety and performance, and hands-on experience with sensor installation and calibration.
- M5. Dashboard and Instrument Cluster Configuration: Study of the design, functionality, and customization of instrument clusters, including software integration and user interface design.
- M6. Reverse Parking System Development and Testing: Design, test, and improve reverse parking systems, focusing on sensor integration, system calibration, and real-world testing.
- M7. Fuel System Dynamics in CRDI Engines: In-depth analysis of the fuel delivery and injection process in CRDI engines, with a focus on efficiency, emissions, and system performance.
- M8. Mechanical Tool Usage and Maintenance: Practical training on the use and maintenance of mechanical tools, with a focus on automotive applications and tool management.
- M9. Cut-Section Analysis of Innova Crysta: Study of vehicle design, focusing on the structural and mechanical components revealed in the cut section, with an emphasis on material selection and engineering design principles.
- M10. Automotive Electrical System Integration: Hands-on experience integrating various electrical systems in a vehicle, focusing on communication between sensors, actuators, and the main control unit.
- M11. Transmission System Analysis and Diagnostics: In-depth exploration of car transmission systems, including the study of manual, automatic, and CVT transmissions, along with hands-on diagnostics and repair techniques.

For Further Information Contact:

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