



Automotive Electrical & Electronics

Course Covered:

1. AUT 243-L Automotive Electrical & Electronics

**DEPARTMENT OF AUTOMOTIVE ENGINEERING TECHNOLOGY
PUNJAB TIANJIN UNIVERSITY OF TECHNOLOGY, LAHORE**

Course Title: AUT 243-L Automotive Electrical & Electronics

List of Experiments:

1. Checking and testing Automotive Battery.
2. Checking and testing Automotive Starting Motor
3. Checking and testing Automotive Charging System
4. Checking and testing Ignition System.
 - Cylinder ignition coil control line (“No.4 Ignition coil **CL3**”)
 - Cylinder ignition control line (“No.4 Ignition **CL**”)
5. Fault detection and troubleshooting of Lightening system.
 - Left front fog lamp line (“**LF** fog lamp **L**”)
 - Left front low beam control line (“**LF** low beam **CL**”)
 - Right front steering lamp line (“**RF** steering side lamp **L**”)
 - Right front width line (“**RF** width lamp **L**”)
 - Hazard lamp switch line 4 (“Hazard lamp switch **L4**”)
 - Reversing lamp switch line (“Reversing lamp switch **L**”)
 - License plate lamp line (“License plate lamp”)
 - Brake lamp switch line (“Brake lamp switch **L**”)
6. Testing Methods for Checking Electrical Components
 - Combination switch line 11 (“Combination switch **L11**”)
 - Combination switch line A4 (“Combination switch **L A4**”)
 - Combination switch line B7 (“Combination switch **L B7**”)
 - Left front motor line 4 (“**LF** door lock motor **L4**”)
 - Right front power window control switch line 1 (“**RFD** power window switch **L1**”)
 - Speaker line (“Speaker **L**”)



Figure.1 Automotive Electrical & Electronics Training Bench.